Volume 168 No. 6

Oil, Paint and Drug Reporter

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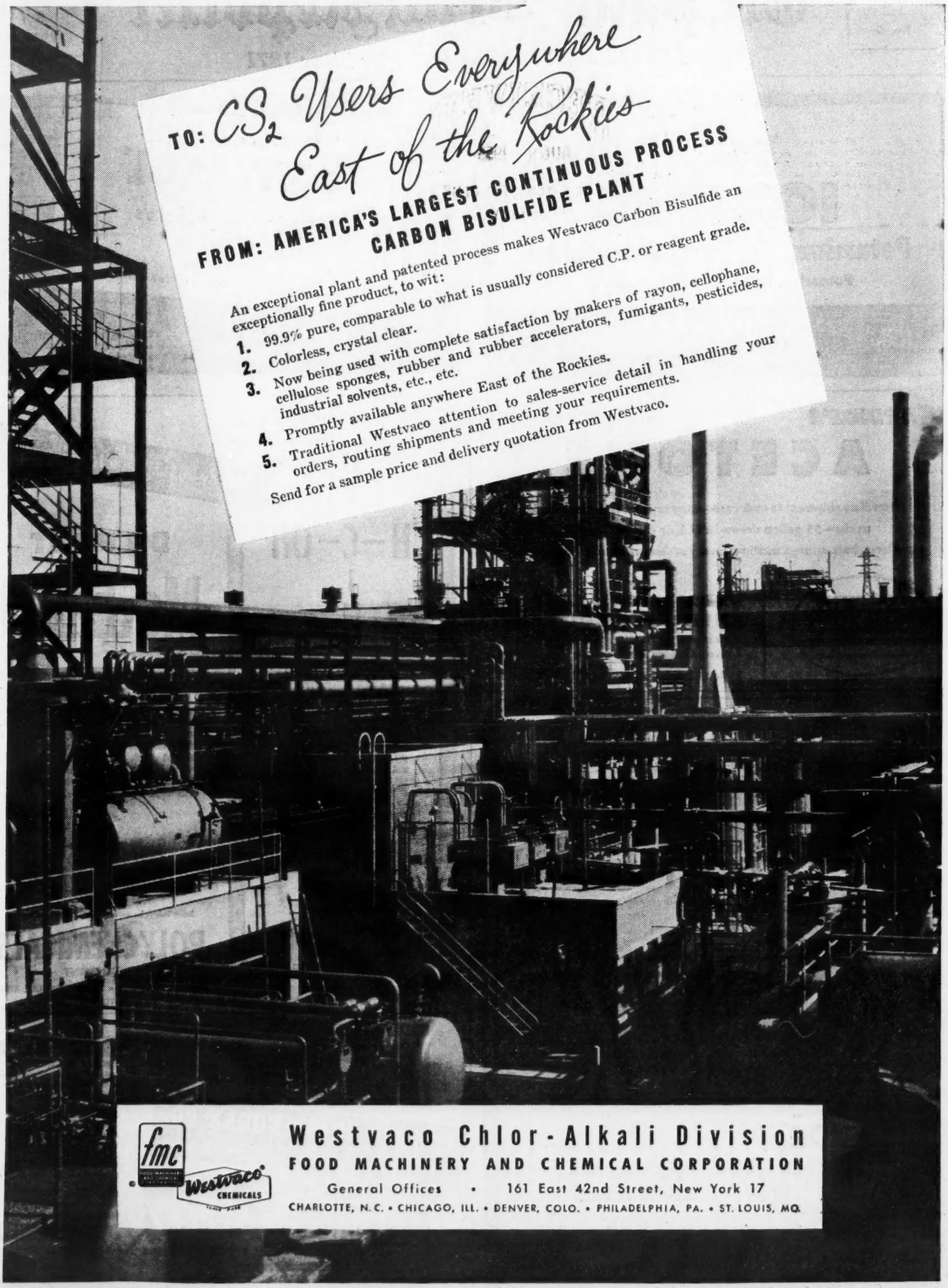
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Oil, Paint and Drug Reporter

Volume 168 No. 6 — 30 Church Street, New York 7, N. Y. — August 8, 1955

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Polio Compromise Bill Is Ready For Signature

Congress passed and sent to the White House for the President's signature last week legislation to finance the giving of free polio vaccine shots to an estimated one-third of the country's eligible children and expectant mothers. Prompt approval of the bill by the President was expected.

The measure, S. 2501, was a compromise of the house and senate versions of the free distribution bills first proposed, but followed mostly the provisions set out in the house bill, which tend to hold down the cost of the program and limit free distribution chiefly to those unable to pay.

An appropriation of $30,000,000 also was provided in a separate bill to finance the cost of the program and an additional $300,000 was voted to the Food and Drug Administration for enforcement connected with distribution of the polio vaccine.

Investigators to Be Hired

The funds for FDA are earmarked for work on polio vaccine enforcement and will enable the agency to hire about forty-eight investigators and twelve clerks to oversee distribution and prevent development of a black market. It will be the FDA's job to keep track of the distribution of the vaccine and to make sure that it stays in drug channels.

The final version of the polio vaccine bill differs from the measure previously passed by the house in only a few important particulars. In the first place, the house provided for allotments to states based on 25 percent of the number of unvaccinated eligible persons arrived at by a certain mathematical formula. The new bill increases from 25 percent to 33⅓ percent the figure which determines the allotments to states.

The house also specified that funds authorized to be appropriated shall remain available until December 31, 1957, but the final bill provides that such funds shall remain available only until February 15, 1956, which will give congress an opportunity to give an early look into the situ-

—*Continued on page 57*

Nicotine Sulfate Dumping Possibility Is Being Probed

The Tariff Commission last week formally announced it had instituted an investigation, under the antidumping law, of alleged imports of nicotine sulfate from the firm of N. V. Alhamex, Amsterdam, Netherlands, to determine whether they are injuring, or likely to injure, domestic industry.

As of this time, the commission said, it has not ordered a public hearing in the matter, but any person who believes that a public hearing should be held may, within fifteen days, submit a request in writing, stating the reasons for a hearing.

Nickel Ordered Diverted To Private Industry Use

Approximately 1,000,000 pounds of nickel scheduled for shipment to the government during August under purchase contracts entered into by the General Services Administration were ordered diverted to private industry to meet commercial shortages by the Office of Defense Mobilization last week.

ODM Director Arthur Flemming explained that the nickel is over and above the 1,000,000 pounds of nickel previously made available for August and added that it should serve to ease the supply problem resulting from the increased industrial demands that have developed for this month.

Explosives Standards Set For Several Amendments

Regulations of the Interstate Commerce Commission covering the transportation of explosives and other dangerous articles are proposed to be amended in several important respects. The changes were contained in twenty-day notice No. 20, dated July 27, re: ICC docket No. 3666. Among some of the important changes were these:—

Authorize the retest of tanks and appurtenances on certain classes of tank-cars at any time during the calendar year in which they fall due for retest, instead of on or before the stencilled retest date on the car as currently required.

Provide for the shipment of chlorine in specification MC-330 cargo tanks.

Allow the use of ICC specification 37A, 37B, and 6J metal drums for transporting certain flammable liquids.

Exempt certain rail express shipments of paints and related materials from marking and labeling requirements.

Authorize the use and recognize new forms of caution labels for shipment of dangerous articles by air. Such labels may be used in lieu of the usual ICC labels and for local transportation to or from airports. The new labels incorporate symbolic warnings.

Provide a more suitable place for marking drums with removable heads.

Require a ⅜ inch minimum for convexity of drum heads.

Provide a new specification MC-304 covering cargo tanks for transporting flammable and poisonous liquids.

Set forth details covering construction of cargo tanks for transporting chlorine.

Tariff Reduction Sessions Are Set To Commence After First of Year

Moving to take full advantage of the new tariff-cutting authority contained in the extension of the trade agreements act voted by congress last month, the State department announced last week that negotiations would get underway soon after January 1 to effect further reductions in world tariffs.

Formal announcement of intentions to negotiate will be made at an early date, it was stated. The negotiations will be carried on with those contracting parties to the General Agreement on Tariffs and Trade that desire to enter into the talks.

Under the extension of the law voted by congress, United States tariffs may be reduced a total of 15 percent below the levels existing on January 1, 1955, at the rate of not more than 5 percent a year. No part of the increase may become effective after January 30, 1958, however, and it will be necessary for the State department to complete its work and announce the new agreements before next July 1 if the full advantage of the law is to be taken.

Other Reductions Included

The extended authority also included negotiation of reductions to 50 percent in advalorem rates which are now above this level in the case of those commodities which enter the United States in small amounts. It is expected that the coming negotiations will include a number of commodities in this category.

The announcement of the State department of the pending negotiations was not unexpected. There have been reports for some time that preliminary talks were being made with representatives of other countries on the possibilities of negotiating modifications of the current agreements next year (OPD, 6/13/55). Also, certain of the government departments have been surveying imports of various products, including chemicals, preliminary to drawing up a list of products likely to be included in the negotiations.

Eight Countries to Modify Duties

Previous to last week's announcement by the State department eight countries had notified the State department of their intentions to modify their import duties on certain products in which the United States has been one of the principle sources of supply. They are acting under Article XXVIII of GATT, which extends the firm life of tariff concessions in existence until December 31, 1957, but gives the countries until September 30, 1955, to renegotiate individual tariff concessions.

The eight countries that have given notice of possible withdrawal or modification of concessions are Austria, Cuba, Fin-

—*Continued on page 54*

WOC Plan Is Allowed to Continue Although Congress Adds Obstacles

Congress agreed last week to permit the government to continue its program of employing industry men on a "without compensation" basis (WOC) to head its bureaus and divisions. A requirement that such persons file a detailed financial report of their private connections and affairs, however, was watered down somewhat at the last minute.

The "compromise" employment provision was drawn by a conference committee of the senate and house as part of the defense production act extension bill and approved just before congress adjourned the session sine die August 2. While viewed as somewhat less onerous than the requirements previously proposed by the house, it probably will continue to make it more difficult than ever to obtain qualified men for the jobs.

When the bill, S. 2391, was passed by the house, it contained the provision of the house banking committee under which any employee serving without compensation had to list all his financial connections, including gifts, and file them with the head of the employing agency. He also had to report any changes in these connections monthly.

Corporate Affiliation Data Required

The final version requires the employee to file for publication in the *Federal Register* "a statement listing the names of any corporations of which he is an officer or director or within sixty days preceding his appointment as an officer or director, or in which he owns, or within sixty days preceding his appointment has owned any stocks, bonds, or other financial interests, and the names of any partnerships in which he is, or was within sixty days preceding his appointment, a partner, and the names of any other businesses in which he owns, or within such sixty day period has owned, any similar interest."

The appointee is also required to make another public disclosure, at the end of each six months, of any changes in such interests which might have occurred in the preceding six months.

It is also provided in the final bill, as was the case in both the senate and house versions, that WOC employees may not engage in any policy-making functions, but "shall, when policy matters are involved, be limited to advising appropriate full-time salaried government officials who are responsible for making policy decisions."

Civil Service to Report to President

The United States Civil Service Commission is to survey the appointment of WOC personnel every three months and report to the President and to the joint congressional committee on defense production together with such recommendations as may be deemed proper.

A test of how the restrictions operate to delay or obstruct the appointment of

—*Continued on page 48*

Food Additives Measure Referred to 4 Agencies

The food additives control bill, H. R. 7607, drawn up by the Manufacturing Chemists Association in cooperation with certain leading food industry groups, has been referred to four government agencies for study and report back to the house interstate and foreign commerce committee when congress reconvenes next January.

They are the Department of Health, Education and Welfare; Department of Commerce, Department of Agriculture, and the Bureau of the Budget. The agencies have been asked to review the measure along with the other bills that have been introduced on the same subject from the standpoint of its necessity and whether it proposes a workable and proper method of control.

The bill was introduced in the house for MCA by Rep. J. Percy Priest of Tennessee, chairman of the committee. Rep. Joseph O'Hara of Minnesota, who has sponsored the bill of the so-called Chicago group in the food industry, calling for prior approval of new additives before being put into use, has also introduced the MCA bill under bill No. H. R. 7764.

In a statement commenting on the legislation, the MCA said that "these identical

—*Continued on page 57*

Mineral Development Pushed By Terms of New Legislation

Seven million acres of public lands in the west will be opened for mineral development, according to the terms of one of two bills, of major importance to the mining and chemical processing industries, which were passed by congress in the closing days of the session last week and sent to the White House.

H. R. 100 will open up for mineral development about 7,000,000 acres of public lands in the west, which had been withdrawn or reserved for power development. Mineral development work on the lands will be subject to the general mining laws and to certain other conditions set out in the bill.

The second bill, H. R. 6373, increases by 100 percent the quota of purchases of tungsten, manganese, chromite, mica, asbestos, beryl, and columbium-tantalum ores, with a cost ceiling of $150,000,000 and continues the purchase program until June 30, 1958.

Vitamins Are Ruled To Be Not Taxable As Food Items

The District Tax Court held last week that vitamin and mineral concoctions are not taxable as food under the District of Columbia sales tax. The ruling was made in a test case brought against certain pharmacists by the District of Columbia tax collector when the pharmacists refused to collect the tax on sales of these products.

Judge Jo V. Morgan stated that "it is clear that vitamins and minerals in their compounded, isolated and concentrated form are not foods. The fact that vitamins and minerals may be taken as a dietary supplement does not make them foods."

Argon Production Increase Of 22 Percent Is Scheduled

Plant expansions now under way among twelve companies with twenty-one operating plants will result in a combined annual producing capacity of 550,000,000 cubic feet of high-purity argon by the end of 1956, according to the chemical division of the Business and Defense Services Administration. This will represent an increase of 22 percent in capacity over the June, 1955, level, it was stated.

Fluorspar Import Hearing Scheduled for September 27

A public hearing will be held September 27 by the Tariff Commission on imports of fluorspar containing more than 97 percent of calcium fluoride, it was announced last week. The hearing will be held at the commission's headquarters building, Washington, D. C.

The hearing is in connection with an investigation directed by the senate finance committee to determine whether concessions granted on this product in any trade agreement have increased quantities, either actual or relative, as to cause or threaten serious injury to the domestic industry.

Those persons intending to appear at the hearings should notify the commission three days in advance of the hearing.

HEW Medical Adviser's Resignation Announced

Dr. Charles S. Keefer resigned last week as chief medical adviser to the Secretary of Health, Education and Welfare, it was announced by the White House. Dr. Keefer had served as special assistant for health and medical affairs since the office was created two years ago when HEW was formed.

He advised the President that his duties as director of medical affairs at Boston University required his full attention. He said, however, that he would continue to serve as chairman of the National Advisory Committee on Polio Vaccine Distribution.

Atomic Energy Talks Will Mark Conference

The first open and unclassified discussion to be held anywhere on harnessing thermonuclear energy for peaceful purposes will be presented at the luncheon session on the third day of the National Industrial Conference Board's fourth annual conference on "Atomic Energy in Industry." The meeting will be held October 26, 27 and 28 in the Waldorf-Astoria hotel, New York, with Hans Thirring, director of the Institute for Theoretical Physics, Vienna, as one of the principal speakers at the session on the non-weapons potentials of thermonuclear energy.

The board's three-day conference will explore foreign progress and prospects for world-wide development of peaceful uses of atomic energy as well as review developments in the United States. More than 2,000 leaders in government, science and industry from this country and from more than twenty-four other nations are expected to attend the sessions and participate in discussions.

Highlights of Geneva Parley

Sir John Cockcroft, director of the Atomic Energy Research Establishment of the United Kingdom Atomic Energy Authority and Nobel Prize winner, will review the highlights of the Geneva United Nations Atomic Energy Conference and will discuss the British nuclear power program at the luncheon session on the opening day. Introducing Sir John to the international audience will be another Nobel Prize winner, Ernest O. Lawrence, director of the Radiation Laboratory at the University of California.

A major evaluation of the significant information presented at the Geneva conference will be given on the morning of October 28 by authorities who attended the Geneva meeting. Topics to be discussed at this session will include reactor technology, world-wide nuclear fuel supplies, the economics of nuclear power, industrial power programs and radioisotopes in industry.

Foreign progress in harnessing the atom to peaceful purposes will be reviewed by outstanding international authorities in the field of atomic energy during the evening of October 26 and the following morning. Addressing the first session will be C. J. Bakker, director general,

—Continued on page 54

Crude Oil Capacity Rises, Tops Old Records in '54

Daily crude oil refining capacity of the United States jumped more than 400,000 barrels in 1954 to reach a new peak of nearly 8,500,000 barrels, Secretary of the Interior Douglas McKay announced last week.

Secretary McKay based his statement on a Bureau of Mines survey of capacities at domestic refineries which shows that at the beginning of this year, the nation's ability to process crude petroleum reached the new level of 8,420,630 barrels daily, compared with 1953's 8,006,897.

Additional crude oil capacity totaling 146,800 barrels daily was reported under construction at the beginning of 1955. Included in this total are four new refineries, one each in California, Minnesota, New Mexico, and Washington. In addition, equipment producing nearly 150,000 barrels daily is being replaced. The Texas Gulf coast refining district topped all others in expanding facilities, installing 32 percent of the new capacity. The East Coast district accounted for 25 percent of the increase, and the Louisiana Gulf Coast and California districts for 13 percent each.

Alcohol Tax Rules Receive Clarification From the IRS

The alcohol and tobacco tax division of the Internal Revenue Service said last week that the industrial alcohol regulations do not require that the date of filling be placed on packages of specially denatured alcohol although the filling date appears in the illustration of marks in section 182.735.

Accordingly, the filling date need not be stenciled or imprinted on packages of specially denatured alcohol. This ruling applies to packages of specially denatured alcohol only.

Nat'l Distillers Picks Director

The election of Minot K. Milliken as a director of National Distillers Products Corporation, New York, was announced last week. Mr. Milliken is vice-president, treasurer and a director of Deering, Milliken & Co., and holds these same offices in Milliken Woolens, Inc.

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Soybeans Added to List Of CCC Export Materials

Soybeans have been added to the list of agricultural products being offered for sale in the export market by the Commodity Credit Corporation at less than domestic prices, it was announced last week by the Department of Agriculture in its monthly commodities sales list for August.

Among other products continued on the export sales list are nonfat dry milk solids, crude and refined cottonseed oil, cottonseed cake or meal, tung oil, grain sorghums, and flaxseed. These same products are available to the domestic trade also, as well as gum rosin, and gum turpentine.

Dry whey, dry whey product, and condensed whey were removed from the market both for export and domestic sales because of depleted stocks.

Reynolds Metals Planning Huge Expansion Program

Reynolds Metals Company, Richmond, Va., has announced plans to increase its primary aluminum producing capacity to 1,100,000,000 pounds per year. Reynolds now has a capacity of 830,000,000 pounds. Richard S. Reynolds, jr., president, called the program the "largest and most comprehensive" in the company's history.

The entire expansion effort will cost about $230,000,000. Of that amount, some $200,000,000 will go for a 270,000,000-pound expansion of primary producing and related facilities, including new bauxite mines in Haiti and Jamaica, and a major coal-burning power plant, Mr. Reynolds added.

Coking Plant Work Begun

Construction has been started on a fluid coking plant by Tide Water Associated Oil Company, San Francisco. With a daily capacity of 42,000 barrels of feed stock, the coker will be eleven times as large as the only other such plant in operation, the company stated. The installation is scheduled for completion in May, 1956.

CCC's Borrowing Funds Are Lifted by 20 Percent

Congress added $2,000,000,000 to the borrowing authority of the Commodity Credit Corporation just before adjournment last week to make certain that the agency would not be without funds to meet the costs of its price support program during the coming marketing season. The increase raised the total borowing ceiling of the agency to $12,000,000,000.

According to the department of Agriculture, CCC now has about $8,700,000,000 tied up in price support loans and in commodities which it has taken over after loans were not redeemed. Additional sums, it was added, would certainly be needed as 1955 crops begin to move to the market. Under Secretary True D. Morse estimated that by February CCC commitments may total between $11,000,000,000 and $12,000,000,000.

The borrowing authority of CCC was raised twice by congress last year from its March, 1954, ceiling of $6,750,000,000. The new increase means that $5,250,000,000 has been added to the agency's funds to meet the costs of the price program in less than a year and a half.

Ferrophosphorus Developed For Atomic Installations Use

Development of ferrophosphorus as an aggregate for concrete used in protective shielding of atomic hot cell installations was disclosed last week by Victor Chemical Works, Chicago. The development, according to Victor engineers, simplifies the construction of nuclear hot cells, the number is growing rapidly as more and more university and industrial research centers move into atomic research and engineering experimentation in many product fields.

Warner-Lambert Is Building

Warner-Lambert Pharmaceutical Company, New York, last week held groundbreaking ceremonies for a multi-million dollar cosmetic and toiletry manufacturing plant in Lititz, Pa. The plant is expected to be completed by June 1, 1956.

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Price Index Moves Upward

The overall OPD price index moved up 0.06 point last week, to stand at 106.81.

Price advances stirred the copper sulfate market last week for the third time this year, as a producer raised prices on the basis of an increased cost in labor following settlement of a strike. Aluminum metal was also higher following the outcome of wage negotiations in the aluminum industry. Industrial ferric chloride moved higher, owing to an accumulation of production costs. Mercury metal was again weaker. Selenium was still very short, with resale lots said to command between two and three times the primary price. Nickel stocks were also tight, with no relief seen for the near future.

The textile and leather chemicals group noted an advance for valonia cups, but no reductions. In the industrial organic chemicals section, acrylonitrile price schedules were lowered. Solvent demand for acetone, ethanol, butanol and other solvents remained quite good. Formaldehyde was running along well. A strike in the trade, which continued up to presstime, did not result in any extra pressure on other producers. Nitroparaffins remained in tight supply.

The drugs, fine chemicals and botanicals market reported an advance for emetine hydrochloride as a result of the higher cost of the raw material, ipecac root. Replacement costs of this botanical have been rising steadily and it appeared likely that the market would continue firm for some time. Podophyllum resin was advanced in line with higher mandrake root costs. Reports to date were that the new crop will also be short, as was last year's, with the result that quotations will probably rise further for replacement stocks.

The coaltar market reported that the price of ADF cresylic acid was increased 10 cents per gallon. It was noted that a good amount of diversification was observed in the application of benzol and other light oils, thus making the market rather stable.

Urea prices were generally lower last week, following reductions announced by at least two major producers the previous week, according to the agricultural chemicals report. Phosphate rock prices were higher, due to increased costs of fuel oil. Dried blood was weaker in Chicago, but stronger in New York. Despite good menhaden catches in the Chesapeake Bay area, supplies were in close balance due to active demand, and prices were higher.

Trading in oils and fats was confined to actual needs, according to the oils, fats and waxes section. Crude cottonseed oil was firmer and sales were reported at higher prices for immediate delivery. Consuming interest in drying oils was fairly active, with sales reported at higher prices for oiticica and castor oils. The essential oils, aromatics, and flavorings market noted advances for spearmint oil and ginger, while pepper, celery seed and anise seed declined. There were no price changes in the petroleum derivatives and protective coatings sections.

Prices Advanced

Aluminum ingots, 1.2c. per lb. (36).
  pigs, 1c. per lb.
Blood, dried, N. Y., 25c. per unit-ton (41).
Cocoa butter, 1c. per lb. (65).
Copper carbonate, ½c. per lb. (36).
  Sulfate, CP, ¼c. per lb.
    cryst., 99%, 25c. per 100 lbs.
    monohydrate, 35c. per 100 lbs.
    tribasic, 50c. per 100 lbs.
Emetine hydrochloride, $9.55 per oz. (51).
Ferric chloride, indust., 42° Be, 30c. per 100 lbs. (36).
Fishmeal, $4 per ton (41).
Fishscrap, $4 per ton (41).
Ginger, Cochin, 1c. per lb. (62).
  Sierra Leone, 1c. per lb.
Oil, cottonseed, crude, ¼c. per lb. (65).
  Oiticica, ¼c. per lb. (65).
  Spearmint, 75c. per lb. (62).
  Sperm, 1c. per lb. (65).
Phosphate rock, Fla., 7½c. per unit-ton (41).
Podophyllum resin, $2.30 per lb. (51).
Valonia cups, $4 per ton (36).

Prices Reduced

Acrylonitrile, 4c. per lb. (43).
Anise seed, Mexican, 1c. per lb. (62).
Blood, dried, Chicago, 25c. per unit-ton (41).
Caffeine, 35c. per lb. (51).
  Citrated, 20c. per lb.
Celery seed, French, 1c. per lb. (62).
  Indian, ½c. per lb.
Copra, $6 per ton (65).
Greases, ½c. per lb. (65).
Linseed meal, 50c. per lb. (65).
Mercury, $6 per flask (36).
Oil, coconut, crude, ¼c. per lb. (65).
  Menhaden, crude, ¼c. per lb.
  Tung, 1½c. per lb. (65).
Pepper, black, 1½c. per lb. (62).
  white, 1c. per lb.
Potassium stannate, 0.4c. per lb. (36).
Sodium stannate, 0.4c. per lb. (36).
Soybean meal, 50c. per lb. (65).
Stannic chloride, 0.5c. per lb. (36).
Stannous chloride, anhyd., 0.6c. per lb. (36).
  hydrous, cryst, 0.5c. per lb.
  Sulfate, 0.5c. per lb.
Tallow, ¼c. per lb. (65).
Tin, 1c. per lb. (36).
Wax, carnauba, crude, Ceara, 2c. per lb. (65).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

August 5, 1955	July 29, 1955	August 6, 1954
106.81	106.75	107.03

Pepper's World Output Rose During Past Year

World production of black and white pepper for the 1955 marketing season last week was estimated at 156,700,000 pounds by the Foreign Agricultural Service. This is 12 percent more than the 139,800,000 pounds produced in 1954, almost 78 percent higher than the postwar (1946-50) average of 88,200,000 pounds and within 15 percent of the prewar (1935-39) average of 184,200,000 pounds.

Of the total production for 1955, it is believed that 116,000,000 pounds will be available for export to the net importing nations of the world. Compared with exportable production for past seasons, this forecast is roughly similar to the percentage comparisons shown above for total production.

With limited supplies of pepper, average wholesale pepper prices (10 cents per pound in 1945) advanced to 106.5 cents in 1949 and 169.3 cents in 1950. The peak was reached in August 1950 when the wholesale price moved to 265.6 cents per pound. Since August 1950 the price trend for black pepper has been downward, and in May 1955 averaged 49.5 cents per pound, New York.

Prewar, Current Requirements

Prewar (1935-39) requirements of the net importing nations of the world is estimated to have averaged no more than 100,000,000 pounds annually. Net imports for the prewar period averaged 132,100,000 pounds as world consumers stockpiled pepper prior to World War II. With 100,000,000 pounds of black and white pepper as the base for prewar consumption, potential world requirements would not exceed 120,000,000 pounds for the current period, based on population increases alone, it was said. Indications are that there were large carry-overs of pepper from the 1954 season. These carry-overs in combination with an exportable production of 116,000,000 pounds promise more than adequate supplies for the current year and the beginnings of reserves in both importing and exporting countries.

The study made by the Foreign Agricultural Service shows that prewar consumption in the United States averaged less than 35,000,000 pounds annually, although imports for 1935-39 averaged 56,-

—*Continued on page 49*

Halogen Fluoride Application Is Told by Pennsylvania Salt

An important non-military use of the halogen fluorides was announced last week by Pennsylvania Salt Manufacturing Company, Philadelphia, and McCullough Tool Company, Houston, Tex., in conjunction with a demonstration of a new well service tool for the oil industry.

The new tool, employing halogen fluorides, was developed by the joint efforts of Pennsalt and McCullough. The chemical is contained in a heavy-walled cylinder equipped with a pressurizing chamber and a firing head with appropiately spaced orifices. The assembly lowered into an oil well, is positioned accurately and held against powerful thrusts by specially designed latches. Upon electrical impulse through the electronic panel and conductor cable, the chemical is ejected under enormous pressure against the inner pipe wall, which it penetrates in a fraction of a second.

By changing the placing of the openings, the tool makes a clean cut, with none of the objectionable flaring produced by previously used explosive methods, the makers reported. It also perforates a smooth, burrless hole.

During the past year the chemical cutter for two inch and two and one-half inch tubing has been employed in commercial operations at depths of a few hundred to many thousand feet. McCullough is gearing its production facilities to meet demand for the tool. In addition, a chemical-cutter for casing has been developed and will be available for commercial use in the near future, the makers stated.

Shawinigan Resins Facility Finished Ahead of Schedule

Expansion by Shawinigan Resins Corporation, Springfield, Mass., of its facilities for production of "Butvar" speciality resins was completed last week, and the facilities have gone on stream, two months ahead of schedule, it was announced by W. R. Elliot, vice-president and general manager. The new facility is specifically scheduled to relieve the present short supply situation of such resins, Mr. Elliot said.

McKesson Senior Vice-Pres.

F. Dean Hildebrandt, manager of the chemical distribution department, has been elected a senior vice-president of McKesson & Robbins, Inc., New York, according to an announcement by George Van Gorder, chairman of the board.

Claims Legislation Passed Covering Texas City's Fire

Legislation for settlement of claims growing out of the Texas City, Tex., disaster of April 16 and 17, 1947 when two shiploads of ammonium nitrate fertilizers, destined for France, exploded, was sent to the President for his signature by congress last week. The explosions and fire cost 570 lives and millions of dollars in property damage.

The bill charges the Secretary of the Army with the job of passing on the claims and sets a ceiling of $25,000 on loss of life, personal injuries, and property damage. The secretary may approve no claim in excess of this amount in each of these categories, and can only make awards of the difference between $25,000 and the amounts previously paid in the form of insurance or other settlements.

No claim may be entertained unless it was part of a civil action filed against the United States prior to April 25, 1950. The secretary may waive this limitation under certain conditions, however. The claims must be filed within 180 days in accordance with rules and regulations to be issued by the secretary within sixty days. All claims must be adjudicated by the secretary within one year from the date of filing.

Sulfuric Acid Plant Begun

Consolidated Chemical Industries, Inc., New York, has announced the start of construction of a 500-ton per day capacity contact sulfuric acid plant on the Mobile River at Le Moyne, Ala., some thirty-five miles north of Mobile. Construction will include an office building, machine shop, storage and shipping facilities, in addition to the acid plant itself. Construction is expected to be completed late in the second quarter of 1956.

Sharp & Dohme's Helm Being Given to John Bill

The board of directors of Merck & Co., Inc., Rahway, N. J., has granted the request of William Dempsey to relinquish his duties as president of the Sharp & Dohme Division after August 31, and has announced that John G. Bill, as vice-president and general manager, will become chief executive officer of the division.

Mr. Bill, who joined Sharp & Dohme in 1925, became general sales director in

John G. Bill

1947. He was elected vice-president in 1949 and was appointed vice-president and general manager of the Sharp & Dohme Division in 1954.

Mr. Dempsey will continue as a director and consultant of the company. He plans to become a general partner of the investment banking firm of Drexel & Co., Philadelphia, on September 1. For some years he has also served as a director of Pennsylvania Company for Banking and Trusts, Saving Fund Society of Germantown, and Fire Association of Philadelphia. In addition, Mr. Dempsey is director of Germantown Hospital, the American Foundation for Pharmaceutical Education, the Health Information Foundation, and the American Drug Manufacturers' Association.

Kentucky Color Announces Addition of New Department

Kentucky Color & Chemical Company, Louisville, Ky., has announced the addition to its regular dry color operation of a department for production of water dispersions of organic and inorganic pigments and selected oxide pigments, and expects to be in full production by September 1.

Heading technical sales and research in this new department will be John G. Smith, and in charge of plant production will be Paul Tudder. Mr. Smith was formerly with United Wallpaper as development chemist in pigment dispersions.

Mr. Tudder was engaged in production of color dispersions for two years with United Wallpaper before joining Kentucky Color.

Industry's Relationship To Economy Detailed

Relationships between the United States chemical industry and other segments of the national economy have been illustrated by chemical economists at Stanford Research Institute and are detailed in the latest installment to the five-volume *Chemical Economics Handbook* published by the institute.

For the first time, statistics on annual inter-industry sales and purchases have been reduced from tables to compact graphs. The analysis utilized government-compiled data to establish the position in the United States economy of the sixteen chemical and allied products and proce s industries by charting their dealings with other segments of United States industry, business and agriculture.

Sales, Purchases Ratio Measured

The study utilized the input-output analysis of economic activity originally developed by Professor Wassily of Harvard University and forwarded by a number of government agencies. This analytical tool measures the quantity of relationship of sales and purchases among the various producing and consuming segments of the economy.

The fabric of United States economy activity is presented so that the demand of one industry can be traced through immediately related industries into secondary and even more remote suppliers. An increased demand for meat products, for example, would be reflected in a sharpened need for grain, and further reflected in a stepped-up demand on fertilizer manufacturers with a corresponding effect on certain segments of the chemical industry.

The ratios involved in these relationships shift from year to year because of technological progress and, to some degree, changes in consumer preferences. But such moves are generally slight so that over-all inter-industry relationships hold true for a reasonable period of years.

Study by Labor Statistics Bureau

In 1952, the Bureau of Labor Statistics published an inter-industry relations study using 1947 data which divided the country's economy into just over 200 sectors, including segments of industry, agriculture finance, professions, service occupations, and government activities.

The SRI analysts collected these 200-plus sectors into thirty-two major industry groups, including "Chemicals and Allied Products Industries." Within that group are fourteen chemicals and allied products industries and two allied process industies—petroleum products, and coke products.

In this latest 120-page installment to the loose-leaf Chemical Economics Hand-

—*Continued on page 60*

Spencer Promotes Two, Establishes New Division

Spencer Chemical Company, Kansas City, Mo., last week announced two major shifts in its organization. Richard F. Brown, general works manager, was named vice-president and general works manager. At the same time, the research and development activities of the company were established as a separate division, with Dr. John R. Brown, jr., general manager of research and development, named managing director of the new division.

In this new post, Mr. Brown will continue to be directly responsible for the operation of all the company's productive facilities. By this grant of broader authority, he will be in a position to relieve C. Y. Thomas, vice-president of operations, of many day-to-day decisions formerly requiring his action.

Dr. Brown joined Spencer in 1953. He had previously served as assistant director of the chemical division of Standard Oil Development Company. Prior to that time, he was associated with Lambert Company, St. Louis, Mo.

National Potash Appoints Porterfield Sales Vice-Pres.

William B. Porterfield, jr., has joined National Potash Company as vice-president and sales manager, it was announced last week. Mr. Porterfield resigned as assistant sales manager of United States Potash Company to become associated with the newly formed company, which is jointly owned by Freeport Sulphur Company, New York, and Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Mr. Porterfield served with Chilean Nitrate Sales Corporation before going to United States Potash in 1947 as sales representative for the eastern seaboard.

Potash Deliveries at Record Point

Potash deliveries in North America by the seven leading American potash producers, and the importers,made a new record of 2,164,997 tons K_2O during the fiscal year of June, 1954, through May, 1955, according to the American Potash Institute. This represents an increase of 8 percent over 1953-1954. The deliveries were made in forty-six states, the District of Columbia, Canada, Cuba, Hawaii, Puerto Rico, and a few other countries.

Potash for agricultural purposes in the continental United States amounted to 1,897,404 tons K_2O, an increase of more than 6 percent over last year. Canada received 86,881 tons K_2O, an increase of 20 percent; Cuba 5,264 tons, a decrease of 21 percent; Puerto Rico, 22,328 tons, an increase of 7 percent; Hawaii, 19,217 tons, an increase of 2 percent; and other countries, 30,584 tons, an increase of 731 percent compared to last year.

Illinois was the leading state for deliveries, followed in order by Ohio, Indiana, Georgia, Virginia and Florida. Deliveries do not necessarily correspond to consumption in a given state.

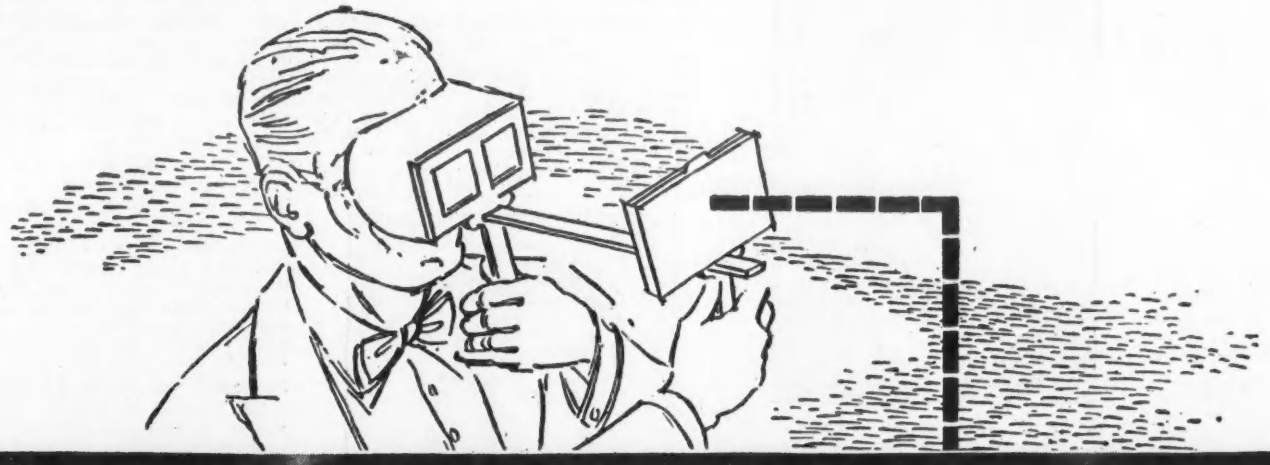
Muriate of potash was the principal grade, comprising 93 percent of the total agricultural potash delivered; sulfate of potash and sulfate of potash-magnesia together made up 7 percent of deliveries; while manure salts dropped to an insignificant figure, reflecting the trend toward the use of more concentrated materials.

Deliveries of potash for chemical uses amounted to 103,319 tons K_2O, an increase of 12 percent over 1953-54. The muriate grade made up 94 percent of chemical deliveries, and sulfate of potash 6 percent.

Texas Butadiene Selects Bowen As Vice-President

Texas Butadiene & Chemical Corporation, Houston, Tex., has appointed K. D. Bowen vice-president and general manager. The company also announced plans to proceed immediately with the construction of a privately financed multimillion dollar alkylate-avgas and butadiene plant in the Houston area. Estimated date of completion is December, 1956.

Mr. Bowen was associated with Dow Chemical Company for seventeen years in various capacities, including manager of the Texas styrene plant. In 1946 Mr. Bowen left Dow to join Celanese Corporation of America as manager of its first chemical plant located at Bishop, Tex. He became manager of plant operations of the chemical division of Celanese in 1951. He was transferred to Charlotte, N.C., in 1953 as director of manufacturing coordination for the corporation.



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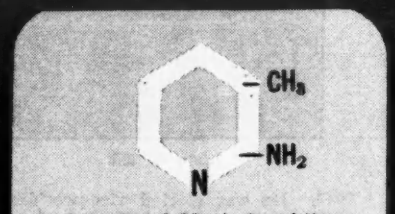
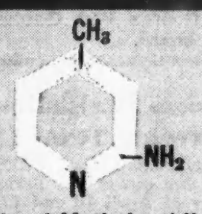
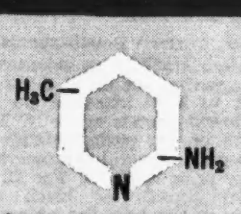


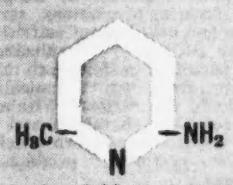
2-Amino-3-Methylpyridine
95% min. purity



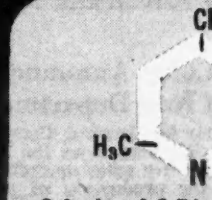
2-Amino-4-Methylpyridine
95% min. purity



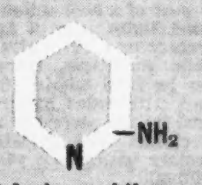
2-Amino-5-Methylpyridine
95% min. purity



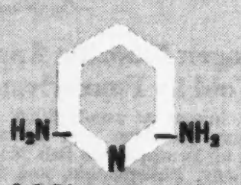
2-Amino-6-Methylpyridine
95% min. purity



2-Amino-4,6-Dimethylpyridine
95% min. purity



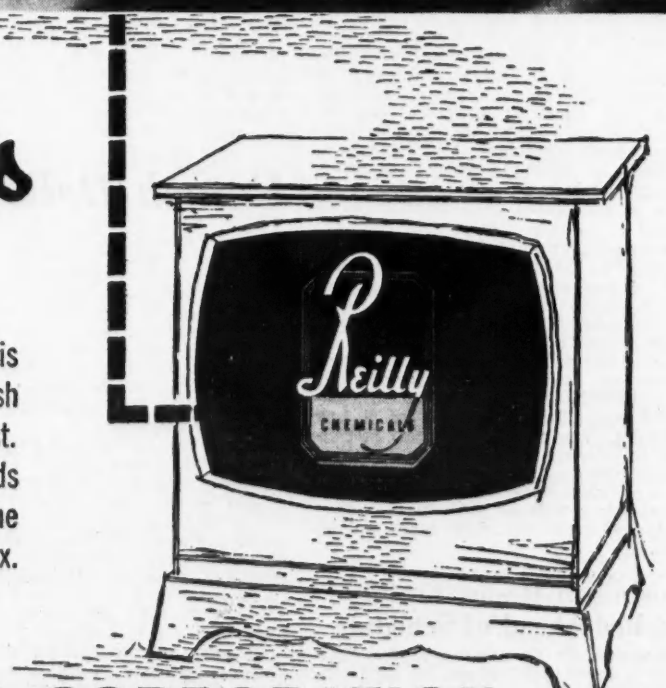
2-Aminopyridine
98% purity



2,6-Diaminopyridine
98% min. purity

Reilly Aminopyridines

The indications are that these compounds will be the basis for many new products. To assist you in your program, we will furnish free samples upon request.
For a complete listing of additional compounds of potential use to you, write for a copy of the Reilly Chemical Index.



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Association Meetings

This Week

International Atoms-for-Peace Conference and Exhibit, Geneva, Switzerland, August 8-20.

American Association of Textile Chemists and Colorists, Atlantic City, N. J., September 22-25.

American Chemical Society, national meeting, University of Minnesota, Minneapolis, Minn., September 11-16.

American Council of Independent Laboratories, annual meeting, Westward Ho hotel, Phoenix, Ariz., November 8-11.

American Institute of Chemical Engineers, Lake Placid, N. Y., September 26-28; annual meeting, Statler hotel, Detroit, Mich., November 27-30

American Petroleum Institute, annual meeting, St. Francis, Fairmount, Palace and Mark Hopkins hotels, San Francisco, November 14-17.

American Pharmaceutical Manufacturers Association, mid-year and eastern section meetings, Waldorf-Astoria hotel, New York, December 12-14.

American Soybean Association, National Soybean Processors Association, joint meeting, Netherlands Plaza hotel, Cincinnati, Ohio, August 29-31.

Association of Consulting Chemists and Chemical Engineers, forum and annual meeting, Belmont Plaza hotel, New York, October 25.

Atomic Energy Exposition, United Nations Plaza, New York, October 20-November 3.

Atomic Industry Trade Fair, Sheraton-Park hotel, Washington, D. C., September 26-30

Chemical Market Research Association, Cavalier hotel, Virginia Beach, Va., September 22-23; joint meeting with CCDA, Carter hotel, Cleveland, Ohio, November 14-15.

Chemical Specialties Manufacturers' Association, annual meeting, Roosevelt hotel, New York, December 5-7.

Combined Pharmaceutical Contact Committee of ADMA and APMA, Sheraton-Park hotel, Washington, D. C., October 10-11

Commercial Chemical Development Association, joint meeting with CMRA, Carter hotel, Cleveland, Ohio, November 14-15.

Drug, Chemical and Allied Trades section of the New York Board of Trade, annual meeting, Pocono Inn, Pocono Manor, Pa., September 22-24.

Exposition of Chemical Industries, Commercial Museum and Convention Hall, Philadelphia, December 5-9.

Federation of Paint and Varnish Production Clubs, annual meeting, Statler hotel, New York, October 3-5.

Federal Wholesale Druggists Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., September 11-14.

Food, Drug and Cosmetic Law division of the American Bar Association, annual meeting, University of Pennsylvania Law School, Philadelphia, August 23.

International Atomic Exposition, Cleveland Public Auditorium, Cleveland, Ohio, December 12-16.

International Congress of Industrial Chemistry, Madrid, Spain, October 22-31.

National Agricultural Chemicals Association, annual meeting, Essex and Sussex hotel, Spring Lake, N. J., September 7-9.

National Association of Retail Druggists, annual convention, Atlantic City, N. J., October 16-20.

National Conference on Standards, Sheraton-Park hotel, Washington, D. C., October 24-26.

National Foreign Trade Council, annual foreign trade convention, Waldorf-Astoria hotel, New York, November 14-16.

National Paint, Varnish and Lacquer Association, annual convention, Shoreham and Sheraton-Park hotels, Washington, D. C., October 31-November 2.

National Petroleum Association, annual meeting, Traymore hotel, Atlantic City, September 14-16.

National Soybean Processors Association, American Soybean Association, joint meeting, Netherlands Plaza hotel, Cincinnati, Ohio, August 29-31.

Nuclear Engineering and Science Congress, Cleveland Public Auditorium, Cleveland, Ohio, December 12-16.

Packaging Machinery Manufacturers Institute, annual meeting, The Homestead, Hot Springs, Va., September 15-18.

Paint Industries' Show, Statler hotel, New York, October 3-5.

Parenteral Drug Association, annual meeting, New Yorker hotel, New York, October 25-27.

Society of Chemical Industry, American section, chemical industry medal dinner, Waldorf-Astoria hotel, New York, October 28.

Society of Cosmetic Chemists, annual seminar, Barbizon-Plaza hotel, New York, September 15-16.

Synthetic Organic Chemical Manufacturers Association monthly luncheon meeting, Waldorf-Astoria hotel, New York, September 14; annual dinner, Commodore hotel, New York, December 1.

World Plastics Fair and Trade Exposition, National Guard Armory, Los Angeles, October 5-9.

MCA Picks New President; Will Reveal Name Tomorrow

The Manufacturing Chemists Association will announce tomorrow the selection of a new president, to succeed William C. Foster, who resigned at the end of July, to become executive vice-president of Olin Mathieson Chemical Corporation, New York. The appointee is a retired four-star general of the army. His name was not divulged, pending notification and formal approval of the MCA board of directors.

Oils, Fats Output, Use: June

Statistics on production and consumption of oils, and fats, including raw materials and primary products have been compiled by the Bureau of Census ,Department of Commerce, for the month of June. The data are as follows:—

Primary Products

	Production (Pounds)	Consumption (Pounds)	Stocks June 30 (Pounds)
Babassu oil, crude	.....	.....	5.646.000
refined	[1]	696.000	318.000
Castor oil, No. 1, crude and No. 3, crude	3.826.000	10.947.000	[2]37.596.000
Coconut oil, crude	41.327.000	46.234.000	[2]76.603.000
refined	30.955.000	26.402.000	10.174.000
Cod and codliver oil[3]	7.000	N.A.	565.000
Corn oil, crude	23.594.000	24.919.000	12.800.000
refined	23.221.000	20.001.000	5.309.000
Cottonseed oil, crude	67.251.000	93.405.000	73.552.000
refined	87.033.000	134.560.000	[4]433.456.000
Menhaden oil[3]	34.128.000	.....	.....
Sardine (pilchard) and herring[3]	[2]358.000	5.654.000	50.053.000
Other fish oil, except liver oil[3]	[2]372.000	.....	.....
Lard, rendered and refined[5]	[6]167.000.000	[6]33.120.000	133.394.000
Linseed oil, raw	30.891.000	50.888.000	110.324.000
refined	21.253.000	25.088.000	28.338.000
Marine mammal oil, not specified[3]	.....	5.052.000	[2]11.367.000
Oiticica oil	.....	614.000	4.033.000
Olive oil, edible	.....	260.000	7.758.000
inedible	.....	7.000	44.000
sulfur foots	.....	[1]	3.213.000
Palm oil, crude	.....	5.843.000	[2]14.435.000
refined	2.422.000	2.370.000	1.167.000
Palm kernel oil, crude	.....	4.259.000	7.423.000
refined	2.197.000	2.156.000	3.397.000
Peanut oil, crude[7]	1.465.000	5.250.000	7.805.000
refined	4.828.000	3.490.000	9.158.000
Perilla oil	.....	.....	.....
Rapeseed oil, crude	.....	[1]	[1]
refined	.....	582.000	2.594.000
Sesame oil, crude	.....	.....	[1]
refined	.....	[1]	297.000
Soybean oil, crude	243.635.000	244.070.000	83.164.000
refined	224.826.000	216.075.000	67.247.000
Tallow, edible (incl. refined)	16.823.000	[8]14.,938.000	15.398.000
Tallow and grease, inedible (other than wool)	.....	.....	.....
All establishments	204.311.000	132.798.000	237.456.000
Establishments classified in meat packing industry	68.870.000	N.A.	N.A.
Tallow and grease, inedible, refined	11.812.000	15.553.000	7.777.000
Tung oil	.....	4.401.000	46.252.000
Other vegetable oil, not specified, crude	2.582.000	4.316.000	20.937.000
refined	1.775.000	1.298.000	2.765.000
Vegetable foots (100% basis)	20.097.000	15.612.000	44.416.000

Primary Produc'ts Except Oil

	Production (Tons)	Shipments and transfer (Tons)	Stocks June 30 (Tons)
Cottonseed cake and meal	95.378	124.325	237.998
hulls	42.355	47.886	48.230
linters (running bales)[9]	.....	.....	.....
First cut	13.216	29.832	61.015
Second cut	39.333	90.474	90.573
Mill run	4.175	7.532	7.938
Total	56.724	127.838	142.527
hull fiber	29	156	364
motes and grabbots	518	1.304	2 856
Soybean cake and meal	509.449	510.819	99.383
Flour	10.762	10.584	2.928
Other cake and meal—	.....	.....	.....
Castor bean	2.196	3.092	182
Copra	11.253	10.833	5.418
Corn germ	13.408	13.491	484
Flaxseed	23.749	33.236	22.447
Olive	.....	[10]	[10]
Peanut[9]	1.479	1.991	1 854
Tung nut	.....	[10]	[10]
Other	4.336	4.013	3.547

Secondary Products

	Production (Pounds)	Consumption (Pounds)	Stocks June 30 (Pounds)
Castor oil, chemically dehydrated[11]	2.288.000	N.A.	2.528.000
Deodorized oil[12]	43.274.000	14.029.000	12.527.000
Coconut-type fatty acids, including coconut, babassu, and palm kernel; and such fractionated fatty acids as lauric, caprylic, capric, and myristic[11]	3.656.000	N.A.	4.952.000
Fish and marine mammal fatty acids	2.226.000	N.A.	720.000
Low rosin fatty acids (rosin content 20% or less)	5.032.000	N.A.	1.739.000
Oleic acid, including white oleic and red oil	7.765.000	N.A.	9.643.000
Stearic acid (40-50% stearic content)	5.695.000	N.A.	5.123.000
Other stearic acids (over 50% stearic content), high palmitic (over 60% palmitic), hydrogenated animal and vegetable fatty acids	7.557.000	N.A.	7.061.000
Unsaturated unhydrogenated animal fatty acids (other than oleic	10.388 000	N.A.	16.720.000
Unsaturated unhydrogenated vegetable fatty acids	8.588.000	N.A.	7.519.000
Glycerine, crude (100% basis)[13]	18.996.000	22.362.000	12 271.000
Refined, all grades (100% basis)[13]	21.384.000	16.055.000	28.488.000
Grease oil, lard oil, and tallow oil[14]	5.424.000	N.A.	5.493.000
Hydrogenated animal fats and oils—	.....	.....	.....
Edible	2.985.000	2.052.000	1.034.000
Inedible	3.273.000	4.297.000	3.200.000
Hydrogenated vegetable oils—	.....	.....	.....
Edible—	.....	.....	.....
Cottonseed	50.524.000	48.807.000	19.691.000
Soybean	101.659.000	94.261.000	35.773.000
Other	6.744.000	4.756.000	2.772.000
Inedible	810.000	1.304.000	1.885.000
Margarine[15]	[16]105.024.000	N.A.	25.589.000
Oleo oil and stearine, animal, edible	6.293.000	2.351.000	3.492.000
Shortening[15]	188.782.000	N.A.	154.234.000
Stearine., animal, inedible[15]	1.461.000	N.A.	1.121.000
vegetable oil, winter	15.484.000	16.635.000	20.002.000
Tall oil, crude	46.672.000	32.556.000	45.989.000
Refined (excluding low rosin fatty acids)	10.867.000	7.930.000	12 243.000
Winterized oil	61.749.000	41.064.00	31.751.000

Raw Materials at Mills

	Receipts (Tons)	Crushings (Tons)	Stocks June 30 (Tons)
Castor beans	4.619.	4.113	6.050
Copra	32.176	32.933	18.474
Corn germ	28.675	28.465	1.573
Cottonseed	18.525	197.030	243.315
Flaxseed	44.256	43.451	28.968
Olives	.....	.....	.....
Peanut[15]	1.269	2.321	1.268
Soybeans	680.836	663.578	323.251
Tung nuts	.....	.....	.....
Other	6,532	5.885	1.274

N.A.—Not available.

[1] Included in "Other vegetable oils" to avoid disclosure of figures for individual companies.

[2] Data for stocks of crude palm oil, crude coconut oil, crude castor oil, and sperm oil are on a commercial stocks basis and do not include figures for stock piles of strategic oils.

[3] Data for fish oil producers collected by Fish and Wildlife Service, Department of the Interior. Combined totals only are available for consumption and stocks of fish oil and marine mammal oil. Consumption data for cod, cod-liver, and other liver oils unavailable and stock figures for these items represent quantities held by producing firms only.

[4] Includes 269,000,000 pounds of refined cottonseed oil reported by respondents to the Census bureau as owned by Commodity Credit Corporation. This figure, as well as the comparable May 31, 1955, figure of 325,000,000 pounds, include quantities sold for export by CCC but not "lifted" and quantities assigned to refiners but not yet delivered to CCC. As of June 30, CCC reported that it had removed from inventory and put in an "in-transit position to other storage" about 65,000,000 pounds of refined cottonseed oil, all of which it is estimated that about 5,000,000 pounds have not been reported to the Census bureau.

[5] Data on production collected by Department of Agriculture. These figures represent only rendered lard. According to this agency, refined lard production (federally inspected only) totaled 121,000,000 pounds in June.

[6] Excludes quantities used in refining.

[7] Data on production and stocks held at crude oil mill locations collected by Agricultural Marketing Service, Department of Agriculture.

[8] Average gross bale weight in pounds for June production:— Total, 616.9; first cut, 610.2; second cut, 618.2, and mill run 626.1.

[9] Data collected by Agricultural Marketing Service, Department of Agriculture.

[10] Included in "Other" to avoid disclosure of figures for individaul companies.

[11] Data for stocks exclude quantities held by consuming factories.

[12] Winterized-deodorized oil, hydrogenated-deodorized oil, and cooking and salad oil not included.

[13] Includes data for synthetic glycerine.

[14] The total for June, 1955, was packaged as follows:—One-pound units 97,122,000 pounds; bulk pats or chips 1,373,000, and bulk other 6,439,000 pounds. The sum of these items may not agree with the production total shown above because some margarine is not packaged during the same month in which it is produced.

[15] Data on peanuts collected by Agricultural Marketing Service, Department of Agriculture, and include reports by peanut shellers.

AIChE Details Plans For Conclave in Sept.

The American Institute of Chemical Engineers has announced the program for its national meeting, to be held at the Lake [illegible]d Club, Lake Placid, N. Y., from September 25 through 28. The opening day will be devoted to registration and social activities.

The "Packaged Power" symposium, with H. Arthur Martin presiding, is planned for the morning of September 26 and will begin with a talk on "The Turbo Supercharged Two-Cycle Gas Engine," delivered by E. G. Beardsley of Clark Bros., Olean, N.Y. "The High Efficiency Engine as a Compressor Drive," will follow, presented by Grant C. Woodard of Cooper-Bessemer Corporation, Mount Vernon, N.Y. A. A. Hafer of General Electric Company, Schenectady, N. Y., will present "The Gas Turbine and Its Application in the Chemical Industry." He will be followed by P. L. Ward of Solar Aircraft Company, San Diego, Calif., who will speak on "Has the Small Gas Turbine an Industrial Future?"

Maj. Gen. Creasy Will Speak

The afternoon session of September 26, devoted to "Broad Social Competence of Engineers," will be presided over by James Donovan and will open with a talk on "Military Engineers' Contribution to Our National Strength," by Maj. Gen. William M. Creasy. "Engineers and Scientists Participate in Community Activity" will follow, delivered by W. R. Collings of Dow Corning Corporation, Midland, Mich. Ralph K. Gottshall of Atlas Powder Company, Wilmington, Del., will present "Management Encourages Engineers to a Broader Life." He will be followed by Howard W. Page of Standard Oil Company of New Jersey, New York, speaking on "Engineering Participation in International Negotiations."

At a banquet on the evening of September 26, Harold P. Smiddy, vice-president and manager of the management consultation services of General Electric Company, New York, will speak on "Development of Professional Managers."

Symposium on Atomic Energy

The "Atoms for Profit" symposium, planned for the morning of September 27, will be presided over by W. Kenneth Davis. "The Problem of Insurance in Atomic Energy Developments," will be covered by M. M. Braidech of the National Board of Fire Underwriters, New York. L. E. Brownell, J. J. Bulmer and John V. Nehemias of the University of Michigan, will present "The Design of a Gamma Irradiation Facility for the Control of In-

—Continued on page 55

Oil Seed Product Marketing Discussion Planned for Sept.

A symposium on marketing the products of oil seeds will be presented on September 12 in Minneapolis, Minn., as part of the 128th national meeting of the American Chemical Society. Malcolm M. Renfrew, director of research and development at Spencer Kellogg & Sons, Inc., Buffalo, N. Y., will preside over the symposium, which will be given during the afternoon of the 12th.

After Mr. Renfrew's introductory remarks, E. H. Russell will discuss "Commodity Trading in Oil Seeds and Their Products." W. F. Schroeder will follow with "Technical Representation in the Shortening Industry." Joseph Eichberg will present "The Lecithin Story—With a Moral." "Marketing of Vegetable Oil Seed Proteins" will be covered by H. A. Olendorf and M. W. Dippols. E. Scott Pattison will talk on "Developing Markets for Fatty Acids." He will be followed by Charles G. Moore, speaking on "Are the Vegetable Oil Producers Really Promoting Their Products to Paint and Resin Manufacturers."

Max Kantor will discuss the question of "How the Vegetable Oil Producers Expect

—Continued on page 49

Fatty Acid Production Drop Reported for Month of June

Fatty acid production in June totaled 34,802,000 pounds, as compared to 38,240,000 pounds in May, according to figures released by the Association of American Soap and Glycerine Producers. The June production figure was 18.8 percent above the figure for June of last year.

Total disposition was 37,500,000 pounds, some 3,700,000 pounds under the May figure and approximately 8,100,000 pounds above the June, 1954 level. Stocks, including work in progress increased to a level of 41,500,000 pounds in June.

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FIRST IN VITAMINS

Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, August 5 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene, below 92.5 C., m.p., dms. works lb. .40 - —
above 92.5 C., m.p., bbls., dms., works lb. .41 - .50
Acetaldehyde, 99%, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd. lb. .13½- —
tanks, dlvd. lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., bbls., c.l., dlvd. lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86
Acetic anhydride, dms., c.l. dlvd E. lb. .15½- —
l.c.l., dlvd E lb. .17 - —
tanks, dlvd E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.35 - —
l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib., dms., c.l., dlvd lb. .82 - —
l.c.l., dlvd lb. .83 - —
Acetone, CP, dms., c.l., dlvd. lb. .09 - —
l.c.l., dlvd. lb. .10 - —
tanks, dlvd. lb. .07 - —
Methyl (see M)
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 - 1.19
Acetophenone, cns. dms lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .36 - —
l.c.l., frt. alld. E. of Denver lb. .33 - —
tanks, frt. alld. E. of Denver. lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39 - —
l.c.l., frt. alld E. of Denver. lb. .40 - —
tanks, frt. alld. E. of Denver. lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt. alld lb. .60 - —
Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490- —
cryst., dms., c.l., works lb. .06½- —
l.c.l. works lb. .07 - .07½
Acetic, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80% bbls 100 lbs.10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs.15.00 -16.00
tech., dms., c.l., dlvd 100 lbs.12.00 - —
l.c.l., dlvd 100 lbs.13.00 - —
tanks, dlvd 100 lbs.10.00 - —
USP cbys., inclusive, dlvd., 100 lbs.24.00 -25.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .63 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh) bbls., 1,000-lb. lots, lb. 58 - .60

Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd lb. .37¾- —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works lb. 2.55 - 2.60
p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50
Anthranilic, bbls., frt. equald lb. 1.21 - —
Arsenous, tech., (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic USP, dms., 25-100 kilo lots kilo.16.00 - —
10-kilo lots kilo.16.35 - —
5-kilo lots kilo.16.75 - —
bots 1-kilo lots kilo.17.00 - —
500-gram lots kilo.17.50 - —
Battery, cbys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech., 99.9%, cryst., bgs., c.l., works ton.124.25 - —
ton lots, ex whse, N. Y. or Chi ton.172.00 - —
smaller lots, same basis. ton.177.00 - —
bbls., c.l., works ton.148.75 - —
ton lots, ex whse. N. Y. or Chi ton.196.50 - —
smaller lots, same basis. ton.201.50 - —
gran., bgs., c.l., works ton.99.25 - —
ton lots, ex whse. N. Y. or Chi ton.147.00 - —
smaller lots, same basis. ton.152.00 - —
bbls., c.l., works ton.123.75 - —
ton lots, ex whse. N. Y. or Chi ton.171.50 - —
Acid, boric, tech., 99.9%, gran., bbls., smaller lots, same basis. ton.176.50 - —
bulk, c.l., works ton.94.25 - —
powd., bgs., c.l., works ton.104.25 - —
ton lots, ex whse. N. Y. or Chi ton.152.00 - —
smaller lots, same basis. ton.157.00 - —
bbls., c.l., works ton.128 75 - —
ton lots, ex whse., N. Y or Chi ton.176.50 - —
smaller lots, same basis. ton.181.50 - —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric Acid $25 per ton higher.

Broenners, bbls lb. 1.76 - —
Butyric, 99% dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tanks, works lb. .32½ —
Capric, dms lb. .24 - .26
Caprylic, dms. lb. .24 - .26
Cassella, dms., frt. alld., 100% basis lb. 1.44 1.75
Castor oil, split, dms lb. .35½- .36
Chicago, bbls., frt alld lb. 3.21 - —
Chloroacetic, mono-, purif., flake, 99%, dms lb. .23½- .25½
tech., flake, 96-97%, dms., frt. equald lb. .20 - .21
o-Chlorobenzoic, fib. dms., works lb. 1.13 - —
p-Chlorobenzoic, fib. dms., works lb. 1.59 1.69
Chlorosulfonic, dms., c.l., frt. equald lb. .0465- —
l.c.l. frt. equald lb. .0515- —
tanks, frt. equald lb. .0415- —

Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.

Cholic, 100-lb. lots, fib. dms. lb. 6.00 6.25
Chromic 99¾%, dms. c.l. works frt. equald lb. .27½- —
l.c.l., dlvd., N. Y. metropolitan area lb. .28¼- .29¼

NF (see Chromium trioxide).

Cinnamic, refd. bots lb. 2.50 3.50
Citric, USP, anhyd., gran., fine gran. dms. c.l. lb. .28¾- —
10,000-lb. lots, 1 shipt. lb. .29¼- —
smaller lots lb. .29¾- .31¼
Acid, citric, USP, hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb. lots, 1 shipt. lb .27½- —
smaller lots lb. 28 - .29½

Powdered citric acid ½c. higher.

Cleve's, mixed, bbls lb. .79 — —
Coconut oil, dist., dms lb. .24¾- .26¾
tanks lb. .22¾- —
dbl. dist., dms lb. .25¾- .27¾
tanks lb. .23¾- —
Corn oil, dist., dms lb. .15¾- .17¾
tanks lb. .13¾- —
Cottonseed oil, dist., dms lb. .1525- .1725
tanks lb. .1325- —
2,3-Cresotic, dms. ton lots, works. lb. .66 - —
less than ton lots, works lb. .68 - —
Cresylic, coaltar dom. 50% 207 C or above resin and tricresyl phosphate grade, tanks, frt. equald gal. 1.00 - —
50% 210° C. or above, total range over 9° C., non-resin grade, dms., c.l., same basis gal. .91 - —
l.c.l., same basis gal. .94 - —
tanks, same basis gal. .80 - —
50% 204° to 207° C., tricresyl phosphate and resin grade, tanks, same basis gal. 1.10 - —
imp., 75% at 215° C., or over, dms., ex whse gal. .85 - 1.00
petroleum, dom., 195° to 214°C., non-ret. 65 dms. to c.l., works, San Francisco and Los Angeles gal. .75 - —
l.c.l., same basis gal. .77 - 79
tanks, works, frt. alld. E. gal. .71 —
200° C to 222° C., tanks, Wilmington, Cal gal. .62 .69
211° C to 237° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .67 - —
l.c.l., same basis gal. 69 - .71
tanks, same basis gal. .54 - —
220° C. to 242° C., tanks, Wilmington, Cal gal. .54 .59
245° C. to 298° C., tanks, Wilmington, Cal gal. .50 - —
Crotonic fib. dms., 200 lbs. or more, works lb. .50 - —
Cyanoacetic, tech. bbls lb. .90 1.25
Dehydrocholic, injection, fib. dms. 100-lb. lots lb. 12.25 - —
oral, fib. dms., 100-lb. lots lb. 9.25 - —
Acid, desoxycholic, fib dms., 100-lb. lots lb.14.00 - —
Dichlorophenoxyacetic (see under D 2,4-D)
Diethylbarbituric (see Barbital)
Diglycollic bgs works lb. 14 - —
2-ethyl hexoic, dms., c.l., works. lb. .36½- —
l.c.l., works lb. .37½- —
tanks, works lb. .34½- —
F, crude, paste, bbls. works lb 2.10 - —
Folic, bots, fib. cns kilo-lots or more gram 1.40 - —
Formic, 85%, cbys., c.l., works lb. 1570- —
l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
l.c.l. works lb. .1675- .1775
Fumaric tech., bgs., dms lb. .27 .28
Gallic, NF VII bbls. 1,000-lb lots lb. 1.80 - —
smaller lots lb 1.82 2.00
tech., bbls. 1,000-lb lots lb 1.58 —
smaller lots lb. 1.82 - 2.00
Gamma, dry, grd. bbls., frt. alld. lb 1.50 - —
paste, bbls. frt alld lb 1.45 - —
Gentisic, 100-lb fib dms lb 8.50 - —
Gluconic, tech., 50% bots lb. .25 .35
cbys lb. .19 —
dms. lb. 15½- —
l-Glutamic, 99½% fib. dms., 100 lb lots works lb 2.45 2.53
25 lb lots, works lb 2.54 2.60
Glycerophosphoric, 35% dms., works lb 2.25 2.35
Glycolic (see Acid hydroxyacetic)
H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
l.c.l., same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., cbys lb 2.94 - —
1.70 s.g., cbys lb 3.23 - —
Hydrobromic, medicinal, 48%, cbys and L lb .37 - .43
Hydrochloric, anhyd (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs 2.50 - —
l.c.l. dlvd Metropolitan area 100 lbs 2.90 3.05
tanks, works, frt equald ton 28.00 - —
20° cbys., c.l., works 100 lbs. 2.75 - —
l.c.l. dlvd metropolitan area 100 lbs. 3.15 - —
tanks, works, frt equald ton 30.00 - —
22° cbys., c.l., works 100 lbs. 3.25 - —
l.c.l. dlvd Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt equald ton 35.00 - —
CP, USP consumers, cbys., extra c.l. works lb 11¾ —
l.c.l., same basis lb. .13¼- .13¾
5-pint bottles, extra, c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .18¼- .19¼

Acid, hydrochloric, CP USP prices to dealers 1c per lb less.

Hydrocyanic, cyls. frt alld lb. 75 95
dilute NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks works lb. .21 - —
70%, steel dms., works lb. .18½- .22½
Hydrofluosilicic, dms., works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W Va., 100% basis lb. .095 - —
Hypophosphorus, purif., 50%, cbys lb. 1.30 1.32
USP, cbys lb. .88 - —
Isonicotinic 100 lb fib dms. works lb. 5.00 - —
Itaconic, fib dms., c.l., works lb. .59 - —
l.c.l., works lb. .60 - —
Hydrazide (see Isoniazid).
J, bbls., works, 100% basis lb. 2.50 2.85
Koch, bbls., frt. alld lb. 1.00 - —
L, bbls., works lb. 1.25 - —
Lactic, edible, 50%, bbls., 20 or more lb. .1754- .215
smaller lots lb. .1854- .225
80%, bbls., 5 or more lb. .3054- .37
smaller lots lb. .3104- .375
plastic grade 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 lb. .235 - —
80%, bbls., 5 or more lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs 6.70 - —
cbys., l.c.l., works 100 lbs.12.20 - —
44%, bbls., c.l., works 100 lbs.11.45 -11.95
l.c.l., works 100 lbs.11.85 -12.35
USP, 85%, cbys. lb. .85 - .88
Laurent's, bbls lb. .60 - —
Lauric, dms lb. .35½- .37½
Linseed oil, dist., dms lb. .1895- —
w.w., dms lb. .2195- —
Maleic, cryst., powd. dms lb. .37 - .38
Malic, tech. dms lb. .50 - —
Mandelic, NF, dms., 1,000-lb lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 99%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —
Molybdic, 85-92%, dms., works lb. 1.32 - —
Monochloroacetic, purif. (see Acid, Chloroacetic mono-).
Muriatic (see Acid, hydrochloric).
Myristic, dms lb. 28 - 29¾
1-Naphthol-4-sulfonic (see Acid, Nevile and Winthers).
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-3-sulfonic, 8-amino (see Acid, S).
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H).
2-Naphthol-3,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2-Naphthylamine-4,8-disulfonic (see Acid, Cassella).
2-Naphthylamine-6-sulfonic (see Acid, Broenner's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).

Abbreviations

Used in OPD Market Quotations

alld.	allowed
amorph.	amorphous
AMP	American melting point
anhyd.	anhydrous
a.p.a.	available phosphoric acid
approx.	approximately
artif.	artificial
ASTM	American Society for Testing Materials
Atl.	Atlantic
Be.	Baume
bbls.	barrels
bgs.	bags
bls.	bales
bots.	bottles
b.p.	boiling point
b.p.l.	bone phosphate of lime
b.r.	boiling range
bxs.	boxes
C.	centigrade
cbys.	carboys
CD	completely denatured
c.i.f.	cost, insurance, freight
cks.	casks
c.l.	carlots
cns.	cans
coml.	commercial
conc.	concentrated
CP	chemically pure
cps.	centipoises
cryst.	crystal
cs.	cases
ctns.	cartons
cyls.	cylinders
d-	dextro
dbl.	double
denat.	denatured
dest-dist.	destructive-distilled
dl-	dextro-laevo
dist.	distilled
distr.	distributor
djns.	demijohns
dlvd.	delivered
dms.	drums
dom.	domestic
E.	east
e.p.	end point
equald.	equalized
exp.	expressed
F	fahrenheit
ferment.	fermentation
f.f.a.	free fatty acid
f.f.c.	free from chlorine
fib.	fiber
f.o.b.	free on board
f.p.a.	free of prussic acid
frt.	freight
gal.	gallon
gran.	granular
grd.	ground
i.&a.	iron and aluminum
i.b.p.	initial boiling point
imp.	imported
incl.	included
indust.	industrial
kgs.	kegs
l-	laevo
lacq.	lacquer
lb.	pound
l.c.l.	less than carlots
l.t.l.	less truckload
liq.	liquid
mfrs.	manufacturers
m-	meta
m.a.p.	mixed aniline point
min.	minimum
m.p.	melting point
N-	nitrogen
n-	normal
nat.	natural
neut.	neutral
NF	National Formulary
NNR	New and Nonofficial Remedies
No.	number
nom.	nominal
o-	ortho
ord.	ordinary
oz.	ounce
p-	para
Pac.	Pacific
pf.	proof
phos.	phosphate
photo.	photographic
pkgs.	packages
powd.	powdered
precip.	precipitated
prod.	producer
pt.	point
pulv.	pulverized
purif.	purified
redist.	redistilled
refd.	refined
refy.	refinery
reg.	regular
resub.	resublimed
ret.	returnable
SD	specially denatured
s.d.	single distilled
S. E.	southeast
sec.	secondary
secs.	seconds
s.g.	specific gravity
ship't	shipment
soln.	solution
s.u.	standard unit
syn.	synthetic
tanks.	railroad tankcars
tech.	technical
tert-	tertiary
t.l.	truck loads
t.w.	tank wagons
USP	U S Pharmacopoeia
vis.	viscosity
VM&P	varnish makers & painters
w. w.	west
W.	warehouse
whse.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nevile & Winther's—Alcohol, Diacetone

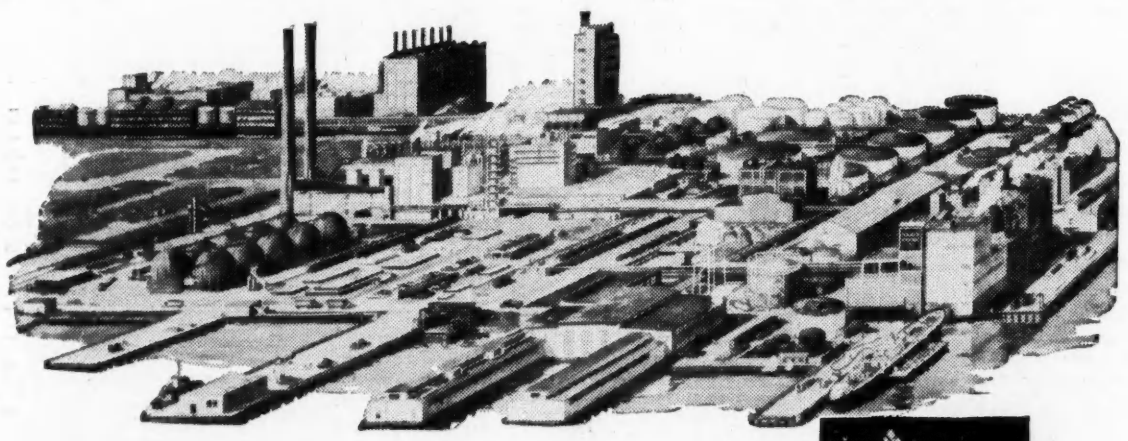
Acid, Nevile and Winther's, dms., frt. alld lb. 1.20 —
Nicotinic, USP, dms., frt. adjusted kilo 8.00 - 8.30
Amide, USP, (see Nicotinamide)
Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.75 —
l.c.l., works, E 100 lbs. 6.05 - 6.85
38° Be cbys., c.l., works E 100 lbs. 6.25 —
l.c.l., works, E 100 lbs. 6.55 - 7.35
40° Be, cbys., c.l., works, E 100 lbs. 6.75 —
l.c.l., works, E 100 lbs. 7.05 - 7.85
42° Be cbys., c.l., works E 100 lbs. 7.25 —
l.c.l., works, E 100 lbs. 7.55 - 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —
CP NF, consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .14¾- .20¾
p-Nitrobenzoic, dms., c.l., works lb. .72 —
l.c.l., works lb. .73 —
Oleic, s.d., dms lb. .18 - .20
tanks lb. .16 - —
dbl. dist. (white), dms lb. .20½- .22½
tanks lb. .1850- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —

Acid, b-oxynaphthoic, bbls., works. lb. 1.14 - —
Palm oil, dbl., dist., dms lb. .14¼- .16¼
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst. cns. lb. .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys., c.l., frt. alld E 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.25 - —
tanks, works 100 lbs. 5.10 - —
NF, 85%, cbys., c.l., works lb. .08 - —
l.c.l., works lb. .08½- —
Picric, NF, bbls. lb. .60 - —
tech., bbls. lb. .34 - .35
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol).
tech., bbls lb. 2.76 - 2.99
Ricinoleic (see Acid, castor oil, split).
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms., c.l. lb. .35 - —
l.c.l., same basis lb. .36 - —
sublimed, tech., fib. dms., c.l. lb. .37 - —
l.c.l. lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .55 - —
Sebacic, purif., dms., c.l., works. lb. .64 - —
l.c.l., works lb. .66 - .70

Acid, soybean oil, dbl. dist., dms lb. .17¾- .19¾
tanks lb. .15¾- —
s.d., dms lb. .16¼- .18¼
tanks lb. .14¼- —
Stearic, dbl. pressed, bgs lb. .14¾- .16¾
single pressed, bgs lb. .14¼- .16¼
triple pressed, bgs lb. .17 - .19
Succinic purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton 18.60 - —
66° Be, cbys., c.l., works, 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton 22.35 - —
98%, tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP, NF, consumers, cbys. extra, c.l., works, frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra cs., c.l., works, frt. alld lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
fuming (oleum), 20%, tanks, works ton 25.00 - —
40%, tanks, works ton 29.00 - —
65%, tanks, works ton 39.50 - —
Tallow, dist., dms lb. .14¾- .16¾
hydrogenated, bgs lb. .13¾- .15¾
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.80 - —
smaller lots lb. 1.81 - 1.85
powd., bbls., 1,000-lb. lots lb. 1.70 - —
smaller lots lb. 1.71 - 1.76
tech., dms lb. .95 - —

Acid, tartaric, USP, dom., 230 or 250-lb. dms., c.l lb. .44 - —
10,000-lb. lots, 1 shipt lb. .44½- —
smaller lots lb. .45 - —
100-lb. dms lb. .46 - —
small, dms. lb. .48 - .54
imp., bgs lb. .38 Nom.
Thioglycolic, refd., cbys., 100% basis lb. 1.35 - 1.55
Tobias, bbls., frt. alld lb. .77 - —
Toluenesulfonic, dms., c.l., works, lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l. lb. .90 - —
125 lbs. to t.l. lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.50 - 2.50
Trichlorophenoxyacetic (see under '2' 2,4,5T)
Tungstic, tech., kgs., works lb. 4.25 - —
Undecylenic, dms lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Aconitine, cryst., potent, bots oz. 78.00 - 85.00
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., t.l., works. lb. .30 - —
l.c.l., l.t.l., works lb. .31 - —
tanks, works lb. .27 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 3.00 - 3.25
powdered, 30 mesh, fib., dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb. 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., c.l lb. .65 - .90
Egg, edible, flake, bbls lb. 1.60 - 1.62
powd., cryst., bbls lb. 1.64 - 1.66
tech., cryst., bbls lb. .70 - .85
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°132°C., dms., l.c.l., dlvd lb. .43 - —
ACS grade, dms., c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .13 - —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., works, frt. alld lb. .18 - —
l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .15 - —
1-pentanol, (syn. normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., c.l., frt. alld lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12 - —
Capryl, 95%, dms., c.l., works lb. .21½- —
l.c.l., works lb. .22½- .23¼
tanks, works lb. .19½- —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib., cns., 140-lb. lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, purif, bots. lb. 1.75 - 2.00
mixed isomers, dms., c.l., dlvd. lb. .23 - —
l.c.l., dlvd. lb. .24 - —
tanks, dlvd. lb. .21 - —
normal (see 1-Decanol). lb. .23 - —
Denat., CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis, gal. .59½- .65¼
tanks, dlvd. same basis, gal. .41½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.
SD1, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65¼
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.

Diacetone, acetone-free, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —



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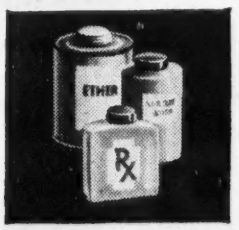

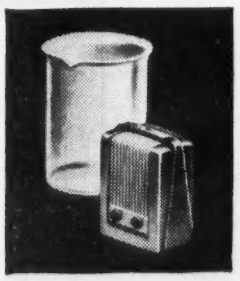

ETHYL ALCOHOL • BUTYL ALCOHOL, NORMAL
BUTYL ACETATE, NORMAL • ETHYL ACETATE
ACETALDEHYDE • ACETIC ACID GLACIAL
ACETONE C.P. • AMYL ACETATE
FUSEL OIL, REFINED • ISOAMYL ALCOHOL
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Alcohol, Ethyl—Ammonium Pentaborate

Alcohol, ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal. 20.48 - —
i.c.l. same basis gal. 20.53 - 20.59
tanks, same basis gal. 20.35 —
tax free dms., c.l., dlvd. E. of Rockies gal. .53 —
i.c.l. same basis gal. .58 .64
tanks, same basis gal. .40 —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies. gal. 21.58 - —
i.c.l. same basis gal. 21.63 - 21.69
tanks, same basis gal. 21.45 —
2-Ethylbutyl, dms., c.l., works lb. .29½- —
c.l. works lb. .30 —
tanks, works lb. .28 —
2-Ethylhexyl, dms., c.l. dlvd. E. lb. .23¾- —
c.l. same basis lb. .24¾- —
tanks same basis lb. .21¾- —
Furfuryl cns., works lb. .29 —
dms., c.l., Cedar Rapids, Ia lb. .21 —
Newark, N. J. lb. .21½- —
i.c.l. Cedar Rapids, Ia lb. .22 —
Newark, N. J. lb. .22½- —
tanks, Memphis, Tenn. lb. .184 —
Hydroabietyl, tech., solid, Zone 1, dms., c.l., dlvd. lb. .27 - —
i.c.l., dlvd. lb. .27½- —
tanks, dlvd. lb. .25 - —
Isoamyl, dms., c.l. works, frt. alld. E. lb. .34 - —
i.c.l. same basis lb. .35 - —
tanks, same basis lb. .32 - —
Isobutyl, dms., c.l., dlvd. lb. .14 - —
i.c.l. dlvd. lb. .15 - —
tanks, dlvd. lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E. lb. .23 - —
i.c.l. dlvd. E. lb. .24 - —
tanks, dlvd. E. lb. .21 - —

Alcohol, isopropyl, refd., 91%, dms., c.l., dlvd. gal. .48 - —
i.c.l., dlvd. gal. .53 - —
tanks, dlvd. gal. .35 —
95%, c.l., dlvd. gal. .50 - —
i.c.l., dlvd. gal. .57 - —
tanks, dlvd. gal. .37 - —
99%, dms., c.l., dlvd. gal. .52 - —
i.c.l., dlvd. gal. .59 - —
tanks, dlvd. gal. .39 —
Lauryl, bots. lb. 2.00 2.50
Methyl (see Methanol).
Metnylamyl (see Carbinol, methyl-isobutyl).
Octyl, perfumer's grade, bots. lb. 1.75 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms. lb. 1.14 1.45
standard, dms. lb. 1.18 - 1.48
n-Propyl, dms., c.l., dlvd. lb. .12 —
c.l. dlvd. lb. .13 - —
tanks, dlvd. lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .44½- —
i.c.l., Newark, N. J., Cedar Rapids, Ia. lb. .47 —
tanks, Niagara Falls, N. Y. lb. .43 - —
Indust. grade, dms., c.l., Niagara Falls, N. Y. lb. .305 —
i.c.l., Newark, N. J., Cedar Rapids, Ia. lb. .33 —
tanks, Niagara Falls, N. Y. lb. .29 —
Tridecyl, mixed isomers, dms., dlvd. lb. .26 - —
i.c.l., dlvd. lb. .27 - —
tanks, dlvd. lb. .24 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms. gal. 2.15 - —

Aldrin, tech., fib., dms., c.l., t.l., dlvd. lb. .80 - —
i.c.l., dlvd. lb. .85 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 90%, dms., frt. alld. lb. 28.80 - 28.90
soln., 20%, dms., 200-2,000 lb. lots, frt. alld. lb. 6.50 - 6.55
2½%, dms., frt. alld. lb. .95 - 1.00
Allspice (see Pimento).
Allyl bromide, cbys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd. lb. .17 - —
i.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .15 - —
Starch, solid, dms., works lb. .52¾- .54¾
solution, 40%, toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs. lb. .45 - .48
powd., cs. lb. .50 - —
Curacao, kgs. lb. .50 - .55
Aloin, USP, bbls., dms., kgs. lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
i.c.l. works 100 lbs. 5.00 - —

Alumina, calcined, bgs., c.l., works. lb. .0385- —
i.c.l. works. lb. .0410- .0510
Aluminum acetate, basic soln., 24°, bbls., i.c.l., works lb. .14 —
Chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .15 - —
i.c.l. works, frt. equald. lb. .1550- —
cryst., dms., c.l., works lb. .1450- —
i.c.l., works. lb. .1500- —
soln. 32°, cbys., c.l., works lb. .0445- —
i.c.l., works. lb. .0320- .1295
tanks, works 100 lbs. 3.45 —
NF, gran., dms., works lb. .29 - .30
Fluoride, tech., anhyd., bgs., c.l., works lb. .15¾- —
i.c.l., works lb. .16¾- .18¾
Aluminum fluoride in fib. dms. 0.35c per lb. higher.
Formate, basic soln., cbys. lb. .09½- —
i.c.l., works lb. .10 —
Hydrate, heavy, bgs., c.l., frt. equald lb. .0285- —
2,000-20,000 lb. lots, same basis lb. .041 - —
bulk, same basis lb. .026 - —
light, bgs., dlvd. lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib. dms., works lb. .82½- —
contract, works lb. 79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld. lb. .2440- —
pigs, 10,000-lb. lots, frt. alld. lb. .2250- —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms. lb. .63½- —
standard, 200-lb. dms. lb. 43 —
Powder, lining, extra, fine, dms. lb. 1.02½- —
standard, 250-lb. dms. lb. 72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c per lb. for 50-lb. dm., 3c. per lb. for 25-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., 2.1% Al, dms., frt. alld. lb. .30½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
i.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb. .33 - —
i.c.l. lb. .34 - .37
tribasic, ctns., c.l. lb. .33 - —
i.c.l. lb. .34 - .37
Sulfate, coml., bulk, c.l., works. 100 lbs. 1.85 - —
grd., bgs., c.l., works ton 37.00 - —
lump, bgs., c.l., works ton 40.00 - —
iron-free, bgs., c.l., works, frt. equald. 100 lbs. 3.55 - —
i.c.l., works, frt. equald. 100 lbs. 3.95 - —
Prices $1 per ton higher in the south.
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .36 - .37
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots. oz. 8.00 - 10.00
Aminoazotoluene, base, bbls., 100% basis lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works lb. .32½- —
i.c.l., works. lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd. lb. .46½- —
i.c.l., dlvd. lb. .45 - —
tanks, dlvd. lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., i.c.l., works lb. .60 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
smaller lots lb. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. .97 - .98
Aminophylline, USP, 100-lb. dms. lb. 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald. ton 85.00 - —
refrigeration, tanks, works, frt. equald. ton 87.50 - —
aqueous (29.4% NH_3), dms., c.l., dlvd. Metropolitan area 100 lbs. 3.60 - —
i.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton 88.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt. equald. 100 lbs. 8.25 - —
i.c.l., same basis 100 lbs. 8.65 - 11.15
white, gran. (see Ammonium chloride, tech.)
Ammonium acetate, purif., dms. lb. .33 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots, frt. alld. lb. .80 - —
smaller lots, frt. alld. lb. .81 - 1.08
Biborate, gran., dms., c.l., works. ton 317.00 - —
ton lots, ex whse. ton 390.50 - —
smaller lots, ex whse. ton 395.50 - —
Bicarbonate, dom., dms., c.l., works 100 lbs. 6.50 - —
i.c.l., works 100 lbs. 8.00 - —
imp., dms., i.c.l. lb. .07¼- .08¼
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd. lb. .2145- .2245
Bromide, NF, gran., bbls. lb. .39 - —
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, dms. lb. .16 - —
Chloride, tech., white, fines, gran., bgs., c.l., works 100 lbs. 5.25 - —
i.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms. lb. .17¼- —
Citrate, dibasic, bbls. lb. .75 - —
dms. lb. .30 - .55
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms. lb. 3.07 - —
Iodide, NF, dms., bots. lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, dom., fertilizer grade, 33.5% N., bgs., western, works, frt. equald. ton 68.00 - —
with dolomite, 20.5% N., bgs., Hopewell, Va. ton 51.00 - —
imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $8 per ton. ton 70.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles. ton 84.89 - —
Oxalate, fine gran., dms. lb. .26½- .31
Pentaborate, gran., dms., c.l., works. ton 227.00 - —
ton lots, ex whse. ton 300.50 - —
smaller lots, ex whse. ton 305.50 - —
Ammonium pentaborate powder, $10 per ton higher.

more CSC

ALKATERGE-C

DISPERSION AGENT · EMULSION STABILIZER
ACID ACCEPTOR · ANTI-FOAM AGENT
ANTI-OXIDANT
PIGMENT GRINDING ASSISTANT

now under construction

Industry has been finding more and more use for this versatile non-volatile surface active agent as such, as salts or oil-soluble soap form. Because of its many applications, demand for CSC's ALKATERGE-C now exceeds supply. This situation will be rectified shortly with the expansion of CSC's new Nitroparaffin facilities at Sterlington, La. Beginning in August, 1955, production capacity will be almost doubled, assuring adequate supplies of ALKATERGE-C for some time to come. Meanwhile, if you are interested in the uses, properties and specifications of this much-used compound, write for literature and a sample to Industrial Chemical Sales Department, CSC, 260 Madison Avenue, New York 16, N. Y.

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260 MADISON AVENUE NEW YORK 16, N. Y.
CSC INDUSTRIAL CHEMICALS

Ammonium perchlorate, kgs., works, lb. .50 - .75
Persulfate, kgs. lb. .46½- .47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .0865- —
c.l. same basis lb. .09 - —
dibasic, NF, V bbls., dms. lb. .46 - —
tech. bgs. c.l. works, frt. equald lb. .0865- —
t.c.l., same basis lb. 0915- —
Salicylate, NF, dms., kgs lb. 1.62 1.64
Silicofluoride, dms., works lb. .11 .12
Sulfamate, bgs., c.l., t.l., works, lb. .18 - —
t.c.l., works lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens, base price ton.42.00 -47.00

For contracts signed prior to Aug. 1, 1955, discount $3; prior to Oct. 1, discount $2, and prior to Jan. 1, 1956, discount $1 per ton.

syn. bgs. c.l. western, works ton.44.00 - —
bulk, works ton.42.00 - —
purif., dms., works lb. .09 - .09½
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis, ton.240.00 - —
t.c.l., works, 100% basis ton.300.00 - —
tanks frt alld., 100% basis ton.180.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
t.c.l., works lb. .22 - .28
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.55
highly purif. cbys. 100% basis. lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
60% soln., dms., c.l., works lb. 06½- —
d-Amphetamine hydrochloride dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms lb 28.00 - —
dl, dms lb 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .22 - —
t.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
ex pentane, reg. dms., c.l., dlvd. lb. .17 - —
t.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .15 - —
tech., dms., c.l., dlvd. lb. .15 - —
t.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
Alcohol (see Alconol amyD.
n-butyrate, dms. lb. .90 - 1.25
Cinnamic, aldehyde, dms lb. 1.75 - 2.20
Nitrite, USP bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.05
o-tert-Amyl phenol, dms., c.l., works, lb. .46 - —
t.c.l., works lb. .49 - —
tanks, works lb. .46 - —
p-tert-Amyl phenol, dms., c.l., works, lb. .24¾- —
t.c.l. works lb. .25¾- —
tanks, works lb. .23¾- —
Anethole, NF, cns., dms lb. 1.85 - —
tech., dms lb. 1.10 - —
Angelica root, dom., bls lb. .60 - .70
Anise seed, Mexican, bgs. lb. .32 - .33
Spanish, bgs. lb. .34 - .35
Syrian, bgs. lb. No prices.
Aniline oil, dms., c.l., works, frt. alld lb. .21 - —
t.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., c.l., truckloads, 20,000 lbs., min., frt. alld lb. .31 - —
t.c.l., same basis lb. .33 - —
Anisic aldehyde, bots. dms lb. 1.80 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs. lb. .24 - —
powd., dms. lb. .28 - —
Anthracene, 90-95% bbls., ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
t.c.l., same basis lb. .86 - —
electrical grade, bbls., t.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .28½- —
cs., c.l., mines lb. .29 - —
Oxide, bgs., c.l., frt. alld lb. .27 - .29
t.c.l., frt. alld lb. .28½- .30½
Sulfide, approx. 65%, bgs., dlvd. lb. .28½- .31½
Trichloride anhyd., pails, c.l., works lb. .38½- —
t.c.l., works lb. .40½- —
USP, powd., dms lb. .64 - .65
Antimony-potassium tartrate, tech., powd., dms lb. .60½- .65½
Antipyrine, NF, 200-lb. bbls lb. 3.50 - —
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots., tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1 kilo lots kilo.74.00 -83.00
Arnica flowers (true montana), bls. lb. 3.00 Nom.
Arsenic metal, lump, bbls., ex whse. lb. .54 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
t.c.l., dlvd lb. .06½- .07½
Asafetida, cs. lb. .36 - .39
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines ton.675.00 - —
Run-of-mine, c.l., (20 tons), mines ton.556.00 - —
3K, c.l. (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton.76.00 - —
7D, c.l. (30 tons), mines ton.68.50 - —
7F, c.l., (30 tons), mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l., (30 tons), mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7RF, c.l. (30 tons), mines ton.40.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
7TF, c.l. (30 tons), mines ton.40.00 - —
9S, c.l., (30 tons), mines ton.27.00 - —

Asbestos c.l. prices are in U. S. funds, t.c.l. lots, $4 per ton higher.

Asphalt, gilsonite, black, jet, bgs., c.l., mines ton.37.00 - —
select, 350° F., fusing pt., bgs., c.l., mines ton.33.00 - —
Asphalt, gilsonite, select, 370°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —
petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy gal. .09½- .10
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots oz. 6.25 - 6.75
Sulfate, USP, bots oz. 4.00 - 4.20

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry, root bark, bgs lb. .28 - .30
Barbital, USP, 100-lb. qms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.92.50 - —
smaller lots, works ton.102.50 - —
Chlorate, kgs., works lb. .32 - .36
Chloride, anhyd., bgs., c.l., works, ton.158.00 - —
t.c.l., works ton.168.00 - —
NF, cryst., dms. lb. .20 - —
tech., cryst., dms., c.l., works, 100 lbs. 6.00 - —
t.c.l., works 100 lbs. 6.50 - —
Barium chromate, bgs., frt. equald, lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs ton.180.00 -190.00
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
t.c.l., works lb. .14 - —
Oxide, grd., dms., frt. equald ton.255.00 - —
t.c.l., works ton.265.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, cbys., c.l., frt. and lb. .37 - —
t.c.l., same basis lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms. lb. .15 - .15½
Sulfide, dms., c.l., works ton.85.00 - —
t.c.l., works ton 95.00 - —
Barytes, Southern, off-color, bgs., mines ton.25.00 - —
95-75%, bgs., mines ton.25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.41.60 - —
ex-whse., N. Y. ton.60.10 - —
Bauxite, bulk, mines ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 - .37
root, bls lb. .45 - .50
Bentonite, dom., 200 mesh, bgs., c.l., mines ton.14.00 - —
imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.80.60 - —
1 ton-lots, ex whse ton.83.10 - —
low gel., bgs., 5-ton lots, ex whse ton.78.95 - —
1-ton lots, ex whse ton.81.45 - —
Benzal chloride, cbys., works lb. .22 - .23½
Benzaldehyde, NF, dms lb. .74 - 1.05
tech., cbys., dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., high gamma, bgs., c.l., dlvd., gamma unit-lb. .0075- —
t.c.l., works, gamma unit-lb. .009 - —
tech., low gamma, bgs., c.l., dlvd., gamma unit-lb. .0075- —
t.c.l., works, gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 —
Benzocaine, dms. lb. 3.48 - 3.50
Benzol, coaltar, pure or nitration, tanks, works:—
Bethlehem, Pa. gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown Pa. gal. .36 - —
Lackawanna, N. Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Middletown, Ohio gal. .36 - —
Minnequa, Colo gal. .36 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. gal. .36 - —
Youngstown, Ohio gal. .36 - —
Benzophenone dms lb. 1.40 1.70
Benzotrichloride, cbys., frt. equald, lb. .18 - .20

NH_4Cl

These properties of

SOLVAY AMMONIUM CHLORIDE

may be useful in Your operations

Some Typical USES and MARKETS for SOLVAY Ammonium Chloride

- **Dry Cell Batteries**
- **Textiles** dyeing operations
- **Flux** used in galvanizing and soldering
- **Leather** compounding of "Tanners bate"
- **Yeast Food**
- **Urea-Formaldehyde**
- **Resins and Adhesives** provides acid salt to accelerate polymerization.
- **Alkaline Cleansers** source of dry Ammonia
- **Bricks** offsets effects of pyrites in clay
- **Ice Manufacturing** produces clear, non-brittle ice
- **Snow Treatment** slows melting on ski slopes
- **Fireproofing Agent** for temporary treatment of paper and textiles
- **Blasting Powder**
- **Water Purification**
- **Foundries** casting sealer
- **Soot Remover**
- **Veterinarian Medicines**

CHECK THESE PHYSICAL and CHEMICAL PROPERTIES of SOLVAY AMMONIUM CHLORIDE

Molecular Weight: 53.50

Solubility in water: 20% at −13° C, 25% at 10°C, 30% at 33°C, 40% at 83°C. Strongly endothermic (lowers solution temperature upon dissolving). Aqueous solubility suppressed by sodium chloride. Slightly soluble in methyl and ethyl alcohol and acetone. Fair solubility in glycerine.

Melting Point: Sublimes.

pH of Solutions: 25°C: 1% 5.5, 3% 5.1, 10% 5.0 (technical grade).

Appearance: White crystals, practically 100% will pass through a No. 20 screen. Tends to cake upon storage.

Reactions: Decomposed in solution by strong alkalies to liberate ammonia. Reacts with nitrites to form nitrogen. Reported to reduce oxides of cobalt and nickel at high temperatures. Hydroxides of nickel, zinc, cadmium and manganese reported to be more soluble in water in presence of ammonium chloride. Acid characteristics cause acceleration of set of urea-formaldehyde resins.

Quality: Principal impurity is sodium chloride. Very low in metallic impurities. Technical grade better than 99% NH_4Cl.

This stable, low-cost, high purity salt has such a wide variety of properties that its uses range from the manufacture of dry cell batteries . . . to its use as a flux in galvanizing and soldering . . . to the application of its endothermic action in retarding the melting of snow.

SOLVAY Ammonium Chloride is *highly soluble* at even relatively *low temperatures*. It is an active electrolyte in water—it has an acid reaction—it has an extremely low metallic content—and it also appears to have the ability to act as a catalyst in certain organic reactions.

TEST SAMPLES and further details are available at no cost or obligation. Write us giving information on your operation so that we can best evaluate how SOLVAY Ammonium Chloride can fit into your particular situation. All information will be kept in strictest confidence.

SOLVAY AMMONIUM CHLORIDE

Get the facts—send for samples Mail Coupon Now!

Allied Chemical

Soda Ash • Snowflake® Crystals • Potassium Carbonate • Calcium Chloride
Sodium Bicarbonate • Ammonium Bicarbonate • Cleaning Compounds • Chloroform
Caustic Potash • Sodium Nitrite • Caustic Soda • Ammonium Chloride • Chlorine
Monochlorobenzene • Para-dichlorobenzene • Ortho-dichlorobenzene
Methylene Chloride • Methyl Chloride • Carbon Tetrachloride

SOLVAY PROCESS DIVISION
Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

Gentlemen: I am interested in the possible use of SOLVAY White Ammonium Chloride in my operations. Please send me, without cost or obligation:

☐ TEST SAMPLE ☐ FREE LITERATURE
☐ SPECIFIC INFORMATION REQUESTED IN ATTACHED LETTER

Name_____
Company_____
Position_____
Address_____
City_____ Zone____ State_____ DU-8

Benzoyl Chloride—Butylamine

Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .62 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .62 1.10
Chloride, tech., 13-gal. cbys., dms., c.l., works, frt. equald lb. .23 - —
l.c.l., same basis lb. .24 - —
tank trucks, same basis lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. In steel dms. prices were ½c. lower.
Cinnamate, cns. lb 3.60 - 3.90
Formate, cns. lb 1.30 - 2.10
Isoeugenol, cns. lb 8.60 - 9.10
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns lb.35.00 -36.25
Hydrochloride, bots. lb.35.00 -36.25
Betagammapicoline (see b.g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical)
Biotin cryst., bots gram.10.00 - —
Biphenyl (see Diphenyl).

Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms. lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —
Nitrate, cryst., dms lb. 2.10 - 2.17
Oxide, anhyd., dms lb. 4.47 - 5.05
Oxychloride, dms lb. 4.37 - 4.42
Phenolsulfonate, fib. dms. lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms. lb. 3.15 - —
Subiodide, fib. dms. lb. 5.37 - —
Subnitrate, NF, dms lb. 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, imp., bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse lb. .22½- .26
Ash (see Barium sulfide).
Bone, dms., l.c.l., frt. alld. lb. .17 - .23¼
Pacific coast bone black prices, 2c. per lb. higher
Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse. lb. .78 - —
medium color, uncompressed, bgs., c.l., works. lb. .12 - —
l.c.l., dlvd. or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .074 - —
l.c.l., works lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse. lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .125

Black, carbon, high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., ctns., l.c.l., whse lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works. lb. .13¼- —
l.c.l., works lb. .13½- —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160- .0675
Blackberry root bark, bls. lb. .45 - —
Black haw root bark, bls. lb. .63 - .65
tree bark, bls lb. .40 - .45
Blanc fixe, dry, byproduct, bgs., c.l., works ton.190.00 - —
l.c.l., works ton.200.00 - —
direct process, bgs., c.l., works. ton.100.00 - —
l.c.l., works ton.110.00 - —
N. Y. whse ton.140.88 -165.00
Bleaching powder, dms., c.l., works. 100 lbs. 5.02 - —
l.c.l., works 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 5.75 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago. unit-ton. 5.75 - —
soluble, bgs., c.l. lb. .14 - 17
l.c.l. lb. .18 - .25
Bloodroot, bls. lb. .48 - .50
Blue, alkali, dry, 250-lb. bbls., dlvd. N. or Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.10 - —
toner, 125-lb. bbls., litho flushed, same basis lb. 1.20 - —

Blue, Chinese, bbls., same basis lb. .49 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis. lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - —
Milori, bbls., same basis lb. .49 - —
Peacock, fugitive, 100% color strength, bbls., same basis. lb. .75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .49 - —
soluble, bbls., same basis lb. .49 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis. lb. .16½- .18½
regular types, dry, bbls., same basis lb. .22½- .35
Victoria toner, molybdated, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls. lb. 5.15 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Vitrol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E. ton.65.00 - —
Los Angeles ton.82.00 - —
Bone phosphate defluorinated (see D)
of lime (see Calcium phosphate, tribasic).
precipatated (see Calcium phosphate tribasic, NF, precip.).
Borax, tech., anhyd., 99½%, bgs., c.l., works ton.78.00 - —
ton lots ex whse. N. Y. or Chicago ton.125.75 - —
bulk, c.l., works ton 70.00 - —
cryst., 99½%, bgs., c.l., works. ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi ton.115.00 - —
smaller lots, same basis. ton.120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton.41.25 - —
ton lots, ex whse., N. Y., Chi ton.89.00 - —
smaller lots, same basis. ton.94.00 - —
bulk, c.l., works ton.35.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.55.50 - —
ton lots, ex whse., N.Y., Chi ton.108.25 - —
smaller lots, same basis. ton.103.25 - —
powd., 99½%, bgs., c.l., works. ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis. ton.99.10 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. pt. lb. .18 - .24
l.c.l., same basis lb. .19 - .26
Borneol, cns lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
lers truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., t.l., dlvd. E. of Rockies lb. .31 - —
l.c.l., same basis lb. .33 - .38
ref. dms., c.l., t.l., dlvd. E. of Rockies lb. .30 - —
l.c.l., same basis lb. .30 - .32
tanks, same basis lb. .21½- —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
l.c.l., same basis lb. .50 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown, iron oxide, pure, bgs., c.l., works lb. .14¼- —
l.c.l., works lb. .14½- —
Oxide, metallic, bgs, works lb. .04 - —
Sienna, burnt, paper bgs., c.l., works. lb. .04¼- .15¼
l.c.l., works lb. .04½- .15½
raw, paper, bgs., c.l., works lb. .04½- .13
l.c.l. works lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- .07
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .06¾- —
l.c.l., works lb. .07 - —
raw, American, bgs., works lb. .06¾- .06¼
Turkey-type, bgs., works lb. .06¾- .07
Vandyke, bbls., works lb. .09½- .12
Brucine, cns., 100-oz. lots oz. .20 - .25
Sulfate, NF, cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls lb. .65 - —
Butadiene, refd., cyls., refy lb. .22 - —
tanks, refy lb. .15 - —
Butane, indust., tanks, group 3 gal. .02½- —
N. Y. harbor gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld. lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
syn., dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol, n-Butyl).
sec-Acetate, syn., dms., c.l., dlvd. E. lb. .12½- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works lb. .37½- —
l.c.l., works lb. .38 - —
Ether, dms., c.l., works lb. .31½- —
l.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .35 - —
l.c.l., same basis lb. .36 - —
tanks, same basis lb. .33 - —
Laurate, dms., works lb. .39 - —
Methacrylate, dms., c.l., t.l., works. lb. .70 - —
l.c.l., works lb. .55½- —
Oleate, refd., dms., l.c.l., works lb. .32 - —
Phenylacetate, dms lb. 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms., l.c.l., frt. equald lb. .24 - .27
Butylamine (see mono-, di-, and tri-).

FOR THE CHEMICAL AND GENERAL INDUSTRY

Caffeine—Natural
Caffeine—Synthetic
Cesium Salts
Cocaine and Salts
Coumarin
Theobromine
Theobromine—Sod. Sal.
Theophylline
Vanillin—Eugenol

Lithium Products
Lithium Benzoate
Bromide
Carbonate
Chloride
Citrate
Fluoride
Hydride
Hydroxide
Metal & Metal Alloys
Salicylate
Stearate
Sulphate

Rare Earth Products
Cerium Carbonate
Chloride
Hydrate
Nitrate
Oxide
Rare Earth Carbonate
Chloride
Fluoride
Nitrate
Lanthanum Salts
Neodymium Salts
Thorium Nitrate

Aromatics
Ionones
Methyl Ionones
Isolates
Synthetics

Synthetic Detergents
Maypon 4 C
Maypon K
Maypon M
Maypon OW

FOR THE TEXTILE INDUSTRY
MAYPON K
PROTEIN – FATTY ACID – CONDENSATE
An effective anionic detergent in scouring, bleaching, and dyeing.
A powerful emulsifier for mineral oils.

FOR THE COSMETIC INDUSTRY
MAYPON 4 C
PROTEIN – FATTY ACID – CONDENSATE
Anionic sudsing agent, detergent, and emulsifier in the production of
SHAMPOOS • PERMANENT COLD WAVE SOLUTIONS • LIQUID BATH PREPARATIONS
COSMETIC CREAMS
In all concentrations, Maypon 4 C satisfies the Draize Woodward eye irritation test.

MAYWOOD CHEMICAL WORKS
MAYWOOD, NEW JERSEY
ESTABLISHED 1895
MAYPON

6-tert-Butyl-m-cresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks, works lb. .48 - —
p-tert-Butylphenol, bgs., c.l., works. lb. .25½- —
l.c.l., works lb. .26½- —
Butyraldehyde, dms., c.l., dlvd lb. .21½- —
l.c.l. dlvd lb. .22½- —
tanks, dlvd lb. .19½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.00
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, dms., 100-lib. lots or more lb. 2.80 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, 100-lb. lots or more. lb. 2.80 - —
citrated, USP, dms., 100-lb. lots or more lb. 2.70 - —
Calamine, USP dms lb. .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .60 - —
25 to 100 gram lots, works. gram. .65 - —
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adjusted lb. 7.00 —
smaller lots same basis lb. 7.05 7.50
Arsenate, dealers, dms., c.l., whse. works, frt. alld. on 96 lbs. or over lb. .09 .10
l.c.l., same basis lb. .10 —
Bromide, NF, jars lb. .90 - .94
Carbide, standard generator size, dms., c.l., dlvd. ton.134.40 - —
Carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton. 7.50 -10.00
chalk whiting, 325 mesh, bgs. works ton 32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
precip. dense bgs. c.l., works. ton.30.00 -33.00
l.c.l., works ton.40.00 -48.00
medium, bgs., c.l., works ton.35.00 —
l.c.l., works ton.45.00 -50.00
surface treated, bgs., c.l., works ton.35.00 -50.00
l.c.l., works ton.45.00 -65.00
ultrafine, bgs., c.l., works. ton.110.00 160.00
l.c.l., works ton.120.00 175.00
Chloride, cryst., purif., dms lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.27.00 - —
liquor, 40%, tanks, frt. equald. ton.11.35 - —
pellets, bgs., c.l., works ton.33.00 - —
powd., bgs., c.l., works ton.37.65 - —
solid, 73-75%, dms., c.l., frt. equald ton.25.50 —
l.c.l., works, same basis. ton.34.00 -71.00
USP, gran., dms. lb. .32 - —
Chromate, bgs., frt. equald lb. .29½- .30
Cyanide, dms., dlvd. E. of Rockies lb. .24 .50
Cyclamate, 100-lb. fib. dms lb. 2.95 - —
Gluconate, AA, bbls., dms lb. 70 72
USP bbls., dms lb. .33 65
Hydride, dms., works lb. 2.15 3.00
Hypochlorite, high test, cased (45 lbs.), dlvd. E. of Rockies cs.22.60 -24.75
dms. 100-lb. same basis dm.28.65 -32.50
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.52 —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. 41 48
Mandelate, USP, dms, works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca., dms., frt. equald lb. .27¼- —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton.46.00 - —
tech., dms., works lb. .13 - —
Pantothenate, jars, 100-fram lots or more, frt. adjusted gram. .07½- —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate dibasic, USP, bgs., c.l., frt. equald 100 lbs. 7.10 - —
l.c.l., frt. equald 100 lbs. 7.60 - 7.95
feed grade, 18½% P, bgs., c.l., t.l., frt. equald ton.79.55 - —
l.c.l., frt. equald ton.88.80 -89.55
20% P, bgs., c.l., t.l., frt. equald ton.84.55 - —
l.c.l., frt. equald ton.96.00 - —
21% P, bgs., c.l., t.l., frt. equald ton.90.30 - —
l.c.l., frt. equald ton.100.30 -100.80
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis. 100 lbs. 6.55 - —
tribasic, NF, precip., bgs., c.l., frt. equald. 100 lbs. 7.60 - —
l.c.l., frt. equald 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate, precip., dms., frt. alld., works lb. .30½- —
Silicate, hydrated, bgs., c.l., works, lb. .06 - —
l.c.l., works lb. .06½- —
paint grade (see Wollastonite).
Stearate, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - .40
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 5.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .15 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .12½- —
Chlorinated 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb. 3.00 - 3.12
nat. USP, powd., cs., 100-lb. lots. lb. .60 - .65
tablets, 1-oz., ½-oz. cs lb. .75 - .80
syn., tech., 1 bbl. or more lb. .52 - —
USP, gran. powd., bbls. 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs lb. 2.25 - 2.30
Russian, bgs lb. 4.00 - 4.05
powd., bxs lb. 4.35 - 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms lb. 4.50 - 5.25
from African pepper, dms lb. 4.35 - 5.00
Caraway seed, Dutch, bgs. lb. .17½- —
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbinol, methyl isobutyl (see Methyl isobutyl carbinol).
Carbon dioxide, indust., wholesale, bulk, dlvd. metropolitan area. ton.73.00 -115.00
cyls., same basis lb. .08 - —
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .07 - —
l.c.l., same basis lb. .08½- .09
5-gal. dms., 30 dms. to c.l., same basis lb. .13 - —
less than 30 dms lb. .16 - —
tanks, same basis lb. .0515- —
Tetrachloride, CP, consumers, dms., l.c., l.c.l., frt. alld lb. .11½- .12¼
tech., consumers, dms., c.l. E. Rockies, frt. alld lb. .10½- —
W. of Rockies, f.o.b. stockpoints lb. .11 - —
l.c.l., E. of Rockies, frt. alld lb. .12¼- —
W. of Rockies, f.o.b. stockpoints lb. .12¾- —
tanks, E. of Rockies, frt. alld lib. .09 - —
W. of Rockies, f.o.b. stockpoints lb. .09½- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms. 100-lb lots, works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, fancy, bold, cs lb. 3.95 - —
selected, bleached, cs lb. 3.80 - —
decorticated, Guatemalan, cs lb. 2.25 - —
Guatemalan, cs lb. 2.10 - —
green, Ceylon, bgs lb. 2.10 - 2.20
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd lb.14.40 - —
smaller lots, dlvd lb.14.50 -15.20
Carotene, tech., 1,350,000 A units per gram, tins, works gram. .48 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works, million units .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works million units. .30 - —
b-Carotene, pure, crystalline, 1,600,000 A units to 1,670,000 per gram., cns. gram. .40 - —
in vegetable oil, 400,000 A units per gram, cns. gram. .096 - —
Carvol, bots lb. 4.50 - 8.00
Cascara sagrada bark, bulk lb. .30 - .31
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .35 - .40
imp., Argentine, acid-precip., grd., bgs., c.l., duty paid lb. .23½- .24
New Zealand, same basis lb. .25 - .26
Cashewnut shell, liquid, treated, dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .15 - .15½
longstick, cracked, bls lb. .16½- .17
shortstick, cracked, bls lb. .16 - —
Saigon, broken, bls lb. No prices.
medium, reconditioned, bls lb. No prices.
thin, bls lb. No prices.
Castor beans, bgs., c. & f ton.115.00 Nom.
Oil (see Oil, castor)
Pomace, bgs., c.l., works ton.37.50 Nom.
Castoreum, nat., cns lb. 5.00 -30.00
syn., cns lb. 9.00 —
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls lb. .75 - —
Celery seed, French, bgs., shipt lb. .33 - —
Indian, bgs. lb. .15 - —
Cellulose scrap (see Pyroxylin scrap).
Acetate, flake, powd., ctns., bgs., 100-lb lots or more, dlvd E lb. .35 .46
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd E. lb. .545 .555
27% butyryl content, bgs., dlvd. E lb. .595 .605
38% butyryl content, bgs., dlvd. E lb. .545 .555
50% butyryl content, bgs., dlvd E lb. .585 - .595
half-second, bgs., dlvd. E. lb. .545 - .555
Cerium hydrate, 74% CeO_2, fib. dms., 100-lb lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb. 1.32 - —
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb. 1.85 - 1.98
smaller lots, dlvd lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .85 - —
Roman, cs lb. 1.50 - —
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots works lb. .27 - .50
Bone (see Black, bone).

CHEMICALS OUTLOOK

August, 1955

This news bulletin about Wyandotte Chemicals services, products, and their applications, is published to help keep you posted. Perhaps you will want to route these and subsequent facts to interested members of your organization. Additional information and trial quantities of Wyandotte products are available upon request . . . may we serve you?

PLURONICS IMPROVE LEVELING OF DYES FOR WOOL, COTTON, AND SYNTHETICS

Wyandotte Pluronics* -- a new series of 100%-active nonionic surface-active agents of unique chemical structure and high molecular weight -- offer the textile industry many advantages as scouring aids and as dyeing assistants in dye leveling.

Properties of the Pluronics, responsible for their commercial acceptance as dye assistants, include: stability to acids and alkalies over the entire pH range; compatibility with metal ions; excellent dispersing of dyes, pigments, lime soaps, and soils; good penetration; extremely low to moderate foaming properties; and their availability in liquid, paste, or flake forms, all 100% active. The dispersing properties of the Pluronics, combined with their stability throughout the entire pH range, makes them particularly useful in acid baths.

In the dyeing of wool, it has been found that Pluronic F68 effectively disperses, suspends, and aids the penetration of both acid and chrome dyes -- helping to produce colors that are brilliant, clear, and level. It is also an effective solubilizing agent for many dyes which are normally difficult to put into solution.

Improved leveling of both direct and vat dyes can be achieved with Pluronic F68 in the dyeing of cotton. F68 is also useful as a dispersing agent for diazo salts which form diazonium dyes directly on the fabric . . . and as a dye assistant for synthetic and synthetic-wool mixtures, spun nylon, and acetate rayon.

F68 is the Pluronic grade which has been most generally used in these applications. It has no cloud point.

Pluronic L61 has virtually no foam in most systems. The L61 grade has been successfully employed as a foam suppressant, vastly reducing the foam of soaps and other nonionic detergents and wetting agents. A new data sheet on the use of Pluronics in dye leveling is now available.

NEW! LOW-FOAMING GRADE FOR BOILER-TREATING AND DETERGENT PRODUCTS

We are now in commercial production of a new Pluronic grade which combines the excellent dispersing and suspending properties of Pluronic F68, and the extremely low-foaming property of grade L61.

A free-flowing flake material, it is called Pluronic F68 LF, and should be of particular help to makers of many boiler-treating compounds and to all compounders of low-foaming detergents.

Samples are available now.

*REG. U.S. PAT. OFF.

Wyandotte CHEMICALS

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES

SODA ASH • CAUSTIC SODA • BICARBONATE OF SODA • CALCIUM CARBONATE • CALCIUM CHLORIDE • CHLORINE • MURIATIC ACID • HYDROGEN • DRY ICE
GLYCOLS • SYNTHETIC DETERGENTS (anionic and nonionic) • CARBOSE ® (Sodium CMC) • ETHYLENE DICHLORIDE • DICHLORODIMETHYLHYDANTOIN
CHLORINATED SOLVENTS • *OTHER ORGANIC AND INORGANIC CHEMICALS*

Charcoal, Hardwood—Coriander Seed

Charcoal hardwood, briquets, bgs., c.l., works ton 77.00 - 83.00
bulk, c.l., works ton 72.00 - —
Pinewood, gran., powd., bgs., c.l., works, South ton 55.00 - —
t.c.l., works, South ton 55.00 - 65.00
lump bgs., c.l., works, South ton 51.50 - —
l.c.l., works, South ton 54.50 - 69.00
bulk, c.l., works South ton 36.00 - —
Chestnut extract, liq., 25% tannin, bbls., c.l. works lb. .04¾- —
l.c.l., works lb. .0510- —
tanks, works lb. .04 - —
powd. 60% tannin, bgs., extra, c.l., works lb. .1032- —
l.c.l., works lb. .1102- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate USP, 40-lb. jars, 1,000-lb. lots lb. 1.00 - —
500-lb. lots lb. 1.03 - —
100-lb. lots or less lb. 1.05 - —
Chloramine T NF, bbls., works lb .75 - 1.00
Chlordan, agricultural, dms., c.l., frt alld lb. .65 - —
l.c.l. 5,000 to 10,000-lb. lots, frt alld lb. .66 - —
clarif., dms., c.l., frt. alld lb. .75 - —
l.c.l., 5,000 to 10,000-lb. lots, frt alld lb. .76 - —
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .15¼- —
l.c.l., same basis lb. .16½- —
70%, dms., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .19 - —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps., ctns., c.l., works lb. .65 - —
l.c.l., works lb. .66 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .09½- —
l.c.l., Metropolitan area lb. .11 - .12¼
tanks, single units, works, frt. equald 100 lbs. 2.93 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 - —
l.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald lb. .75 - —
o-Chlorobenzaldehyde, dms., works. lb. 1.20 - —
p-Chlorobenzaldehyde, dms., works. lb. 1.33 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 - —
powd., dlvd. E., 100% basis lb. .86 - —
4-Chloro-2-nitroaniline, powd., dlvd. E lb. .80 - —
o-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
p-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
Chlorophyll, oil soluble, not fixed, 4%, pails, tins, works lb. 4.25 - —
copper fixed, 6½% tins, pails, works lb 4.25 - —
sodium-copper, aqueous soln., 4%, dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
conc., dom., 50%, dms., works, 100% basis lb. 42.00 - —
75%, dms., works, 100% basis lb. 45.00 - —
90%-100%, dms., works, 100% basis lb. 45.00 - —
imp., 60%, tins, 100% basis. lb. 58.00 - —
75%, tins, 100% basis lb. 58.00 - —
90%, tins, 100% basis lb. 58.00 - —
Chloropicrin, coml., bots lb. 1.50 - —
cyls., 180 lbs. frt alld lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Cholesterol, USP fib. dms., 100-lb. lots lb. 6.85 - 9.00
Choline bitartrate, fib. dms., frt. adjusted lb. 1.25 - 1.50
Chloride, fib. dms., frt. adjusted. lb. 1.50 - 1.75
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.50 - 1.75
Chromium acetate, soln., 7½%, bbls., works lb. .08½- —
cbys works lb. .10¼- —
Fluoride, bbls., works lb. .51 - .53
Chromium, green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide NF bots lb. .83 - .89
Yellow (see Yellow chrome).
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine, cryst., cns., 100-oz. lots. oz. .65 - —
Sulfate, cns., 100-oz. lots oz. .35 - —
Cinchonine, cryst., cns., 100-oz. lots. oz. .52 - .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, cns., dms. lb 1.00 - 1.30
Cinnamon, Ceylon, No. 2, bgs. lb. .54 - —
"0000," bgs., afloat lb. .80 - —
Citral, bots., cns lb. 5.65 - 5.90
Citronellal, bots., dms lb 1.85 - 2.50
Citronellol, bots., dms lb. 4.40 - 5.00
Civet, artif., bots lb. 13.75 -15.00
nat., bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton. 19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton. 10.00 - —
purif., bgs., c.l. Tenn ton. 20.50 - —
imp., airfloated, bgs., c.l., Atl. port, long ton. 42.00 - 45.00
lump, bulk, Atl. port, long ton. 27.00 - 30.20
China, dom., dry-grd., airfloat, 99%, 325 mesh, bgs., c.l., Georgia, works ton. 10.00 - —
t.c.l. Georgia, works. ton. 15.50 - —
300 mesh, bgs., c.l., Georgia, works ton. 13.50 -14.50
t.c.l. ton. 35.00 -36.00
imp., white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 20.00 - 35.00
powd., bgs., c.l., ex dock net ton. 50.00 - —
l.c.l., ex whse net ton. 60.00 - 65.00
Clove, Madagascar, bgs lb. .45 - —
Zanzibar, bgs lb. .45 - —
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis. lb. .37 - —
less than 23,000 lbs., dlvd. E., 100% basis lb. .41 - —
65%, bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .37 - —
l.c.l., dlvd. E., 100% basis. lb. .41 - —
purif., high vis. (see Gum Cellulose).
standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld. lb. .55 - —
smaller lots, same basis lb. .57 - —

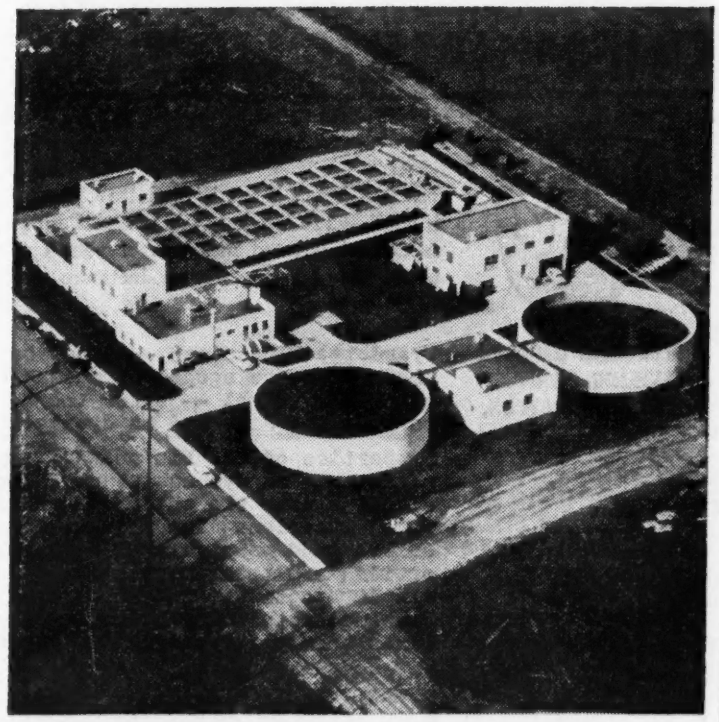
CMC prices W. of the Rockies are 2c. per lb. lower, and are on a works basis.

Coaltar, crude, resale for solns., dms., c.l., ex-whse. gal. .255 - —
l.c.l., ex-whse gal. .275 - —
tanks, ex works gal. .155 - .159
refd., resale, dms., c.l., ex-whse. gal. .2650- .32
l.c.l., ex-whse gal. .2850- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, bbls., dlvd. lb. 1.30 - —
Carbonate, 46% powd., bgs., dlvd. lb. 2.15 - —
Chloride, 24.2% Co., kgs., dlvd., lb. 1.20 - —
Hydrate, 60-61% Co., bbls., dlvd. lb. 2.72 - —
Linoleate, fused, 8½% Co., dms. lb. .75¼- —
liq., 6% Co., dms lb. .61 - —
Metal, 97-99% kgs., ex whse lb. 2.60 - —
Naphthenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co, bbls., dlvd lb. 1.00 - —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused, 3% Co., dms lb. .29¾- —
Sulfate, cryst. 21% Co., dms., dlvd lb. .89 - —
monohydrated, 33% Co., dms. dlvd lb. 1.40 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz. 17.80 - —
Hydrochloride, cns., 100-oz. lots. oz. 13.75 - —
Cocillana bark, bgs lb. .40 - .50
Cocoa butter, bgs. lb. .59 - .63
Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots. oz. 11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz. 10.25 - —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 - .23
blue, bls lb. .20 - .23
Colchicine, USP, bots., cns. oz. 33.50 -40.00
Colchicum root, bls lb. .45 - .55
seed, bgs lb. .75 - 1.00
Collodion, USP, dms lb. .32½- —
flexible, USP, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls lb. No prices.
Condurango bark, bales lb. .40 - .50
Copaiba balsam, cns., dms lb. .90 - 1.20
Copper acetate, bbls., c.l., works lb. .43 - —
l.c.l., works lb. .44 - —
Carbonate, 55%, bgs., works lb. .30½- .32
Chloride, anhyd., bbls., works lb. .43½- —
cryst., bbls., works lb. .29 - .29¼
Cyanide tech., bbls., 20,000-lb. lots or more lb. .73 - —
1,000-lb. lots or more lb. .74 - —
smaller lots lb. .76 - —
Gluconate, cns., dms lb. 3.00 - 3.24
Hydrate, dms., frt. alld. E. Miss. lb. .45¼- .45¾
Metal, electrolytic, dlvd., Valley basis lb. .36 - —
Naphthenate, liq., 8% Cu., dms., frt. alld lb. .24 - —
Nitrate, tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 8% Cu, dms., works lb. .45 - —
Oxide, black, bbls., 500-lb. lots or more, works lb. .47½- .49¼
red, 97%, USN Type I, bbls., lb. .53½- .68
90%, USN Type II, bbls., 500-lb. lots or more, works lb. .48½- .51¼
Oxychloride, dms., works lb. .46 - .56¼
Quinolinate, fib. dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb. .31½- —
Sulfate, CP, gran., bbls., works lb. .1940- —
cryst., 99%, bgs., c.l., works. 100 lbs. 12.50 - —
l.c.l., works 100 lbs. 13.25 -13.75
monohydrated, 35% dms., c.l., works 100 lbs. 20.10 - —
l.c.l., works 100 lbs. 20.85 - —
tribasic, dealers, bgs., c.l., works, frt. alld 100 lbs. 26.75 - —
l.c.l., works 100 lbs. 28.25 -28.75
Undecylenate dms lb 2.90 - 3.00
Copra, Atl. Gulf ports, c.i.f. ton. 154.00 - —
Pacific ports, c.i.f. lb. 149.00 - —
Coriander seed, Moroccan, bgs., afloat lb. No prices.
Roumanian, bgs. lb. .08 - —
Yugoslavian, bgs. lb. .07½- —

the Big 3

PENNSALT CHEMICALS

for Water and Sewage Treatment



Aerial view of the sewage plant at Tacoma, Washington, a big user of PENNSALT Chemicals for sewage treatment.

1 CHLORINE

A uniform quality water works grade of chlorine. Used by hundreds of cities and communities throughout the West because of confidence in PENNSALT'S Quality Control of the product. Shipped in 100 and 150 lb. cylinders and ton containers by rail, truck and water.

2 AMMONIA, Anhydrous

Water works grade, shipped in modern, lightweight cylinders which saves considerable freight cost and lightens the burden of handling. 50, 100, 150 lb. cylinders.

3 PERCHLORON®

High-test calcium hypochlorite containing 70% available chlorine. Shipped in 100 lb. drums; cases—9 5-lb. cans to case.

Pennsalt Chemicals

Save time—for fast service call the PENNSALT OFFICE nearest you

Tacoma 1, Wash.—MArket 9101 Portland, Ore.—ATwater 7655
Berkeley 4, Calif.—AShberry 3-2537 Los Angeles, Calif.—JEfferson 6244
Philadelphia, Pa.—LOcust 4-4700

PENNSYLVANIA SALT MANUFACTURING COMPANY OF WASHINGTON
Tacoma 1, Washington

Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs 7.31 - —
l.c.l. .....100 lbs. 7.46 - —
Syrup, 42° dms., c.l..... 100 lbs. 7.32 - —
l.c.l. .....100 lbs. 7.46 - —
Corrosive sublimate (see Mercuric Chloride).
Cortisone acetate, NNR, bulk gram. 3.50 - 3.55
Cottonseed meal, exp 41%, bgs., Memphis..ton.61.00 - —
Coumarin, NF, cryst., dms.....lb. 3.10 - 3.20
Cramp bark, NF bls lb. 85 90
Cream of tartar (see Potassium bitartrate)
Creosote carbonate, NF, bots. cbys. lb. 3.05 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
soln., 80%, tanks, works gal. .2068 —
refd., dms., c.l., works.....gal. .40 - .42
l.c.l., same basis.....gal. .50 - .53
tanks, same basis .....gal. .30 - .33
Wood, beechwood, cbys., dms. lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb. 1.30 - 1.35
pinewood, tanks, works lb. .528 - —
Cresol, tech., 30% below 204°C., dry above 207 C, wide distillation range, non-ret. dms., c.l., frt equald..lb. .148 - —
l.c.l., same basis... lb. .151 - —
tanks, same basis.....lb. .135 - —
USP, non-ret., dms., c.l., same basis..lb. .158 - —
l.c.l., same basis .....lb. .161 - —
ret dms., c.l. same basis ..lb. .140 - —
l.c.l. same basis .....lb. .145 - —
tanks, same basis.....lb. .145 - —
m-Cresol, 95-98% dms., c.l., works. lb. .60 - —
l.c.l. works lb. .61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald . .158 - —
l.c.l., same basis.....lb. .161 - —
tanks, same basis .....lb. .145 - —
2-97%, 2°C., dms., c.l., frt. equald. lb. .198 - —
l.c.l., same basis.....lb. .201 - —
tanks, same basis .....lb. .185 - —
o-Cresol, m.p over 30°C., ret. dms., c.l. frt. equald lb. .173 - —
l.c.l., same basis .....lb. .176 - —
tanks, same basis .....lb. .16 - —
29°C. ret dms. c.l. frt. equald. lb. .16 - —
l.c.l. same basis .....lb. .16½ - —
tanks, same basis .....lb. .15 - —
25-29°C., dms., c.l., frt. equald.lb. .153 - —
l.c.l. same basis .....lb. .156 - —
tanks, same basis.....lb. .14 - —
p-Cresol, 98% dms. c.l., dlvd ...lb. .49 - —
l.c.l., dlvd .....lb. .51 - —
Methyl ether, cns.....lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼ - .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs.13.00 - —
l.c.l., works 100 lbs.14.25 - —
Insecticide, dealers, bgs., c.l., dlvd 100 lbs.16.75 - —
l.c.l., dlvd 100 lbs.17.75 - —
Cube root powd., 5% rotenone, bgs., c.l., t.l., works..lb. .26 - .27
l.c.l., works .....lb. .27 - .27½
Cubeb berries, XX, NF, bgs.....lb. .60 - .65
powd., cs .....lb. .75 - .80
Cumene, dms., c.l., works.....lb. .12 - —
l.c.l., works .....lb. .14 - —
tanks, works .....lb. .11 - —
Cumin seed, Iranian, bgs.....lb. .12½ - —
Turkish, bgs.....lb. .12½ - —
Cutch extract, 65% tannin, bgs., ex dock duty extra lb. .08¼ - —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton.55.00 - —
pulv., 21% N, bgs., works, unit-ton.. 2.75 - —
Indust. grade, bgs., c.l., works ton.75.00 - —
l.c.l., bgs., works ton.96.00 - —
6-16 mesh, dms. c.l., works.ton.120.00 - —
l.c.l., works.....ton.140.00 - —
Cyclohexane, 99% tech., dms., c.l., works gal. .70 - —
l.c.l., works.....gal. .72 - —
tanks, works .....gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½ - .37¾
l.c.l. works, same basis ... lb. .30 - .38¼
tanks, works, same basis .... lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½ - —
l.c.l., works .....lb. .35 - —
tanks, works .....lb. .32 - —
Cyclohexylamine, dms., c.l., works. lb. .46½ - —
l.c.l., works .....lb. .47½ - —
tanks, works .....lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl.48.00 - —
6 oz. cyls., works .....cyl.12.00 - —
USP, hospitals, cyls., 40-gal. lots, gal. .38 - —
100-gal. lots.....gal. .37 - —
200-gal. lots.....gal. .36 - —

D

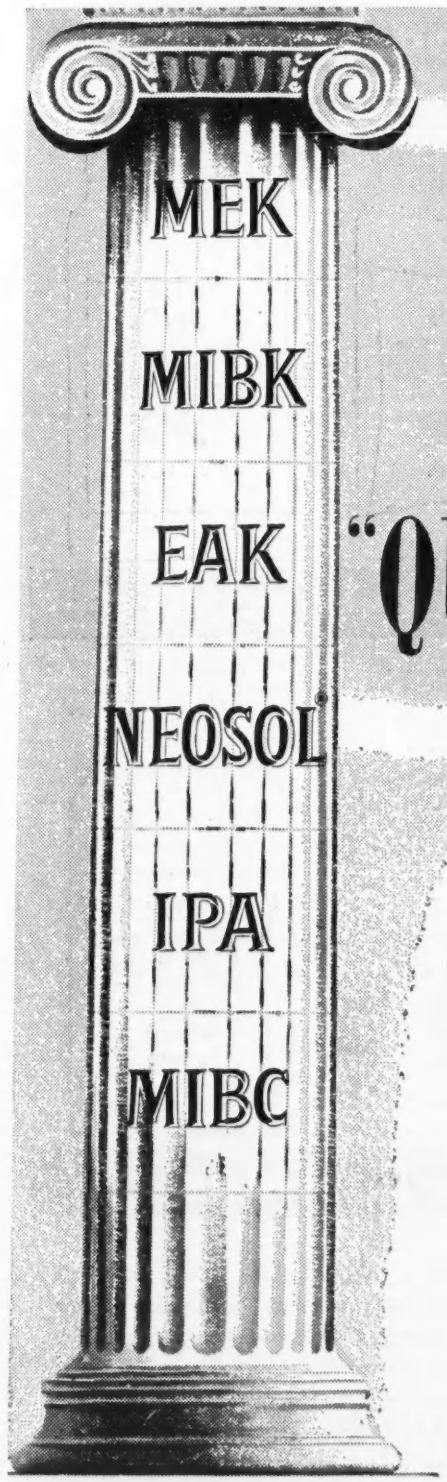
2-4-D, tech., dms., c.l., works, frt. equald lb. .41½ - —
l.c.l., same basas..... lb. .46½ - .48¼
Butyl ester, dms., c.l., works. lb. .43 - —
l.c.l., same basis..... lb. .48 - .50
Isopropyl ester, dms., c.l., works. lb. .43 - —
l.c.l., works..... lb. .48 - .50
Dandelion root, bls ..... lb. .35 - .40
DDD, tech., flake, grd., fib, bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald. lb. .27 - —
smaller lots, same basis .. lb. .29 - —
fib, dms., c.l., same basis .. lb. .28 - —
smaller lots same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd. lb. .41 - —
l.c.l., dlvd. .....lb. .43 - —
tanks, dlvd. .....lb. .38½ - —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works..ton.53.40 - —
14½% P, paper bgs., c.l., t.l., works..ton.48.00 - —
17%P, paper bgs., c.l., t.l., works..ton.56.00 - —
18% P, paper bgs., c.l., t.l., works..ton.69.85 - —
Degras, common, bbls .....lb. .10 - —
neutral, less 2% f.f.a., bbls....lb. .23 - —
over 2% f.f.a., bbls .....lb. .22 - —
d-Desoxyephedrine hydrochloride bots lb.25.00 - —
dl, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 8.95 - —
l.c.l. 100 lbs. 9.10 - —
canary, paper bgs., c.l. 100 lbs. 8.69 - —
l.c.l. 100 lbs. 8.84 - —
dark, paper bgs., c.l....100 lbs. 8.79 - —
l.c.l. 100 lbs. 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.53 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs lb. .10½ - .11
Dextrose USP dms lb. .17¾ - —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots..... lb. 4.50 - 5.50
Di-sec-amyl phenol, dms., c.l., works..lb. .30¾ - —
l.c.l., works.....lb. .32¼ - —
tanks, works.....lb. .28¾ - —

Di-tert-amyl phenol, dms., c.l., works..lb. .30¾ - —
l.c.l., works.....lb. .32¼ - —
tanks, works.....lb. .28¾ - —
o-Dianisidine, fib, dms.....lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .89¾ - .90
l.c.l., same basis .....lb. .90¼ - .91
tanks, same basis .....lb. .88 - —
p-Dibromobenzene, bgs., 500-lb. lots lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .32 - —
l.c.l., same basis .....lb. .33 - —
tanks, same basis .....lb. .30 - —
Sebacate, dms., c.l., works....lb. .66 - —
l.c.l., works .....lb. .66½ - .67
tanks, works, dlvd .....lb. .64 - .64½
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd...lb. .55 - —
l.c.l., same basis.....lb. .56 - —
tanks, same basis .....lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works lb. .91 - —
l.c.l., works .....lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., dlvd..lb. .30½ - .31½
l.c.l., dlvd.....lb. .31½ - .32½
tanks, dlvd.....lb. .29½ - —
Sebacate, dms., c.l., works... lb. .63 - —
l.c.l., works .....lb. .63½ - .64
tanks, works .....lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt, alld. E lb. .12¼ - —
l.c.l., same basis .....lb. .13¼ - —
tanks, same basis .....lb. .10¾ - —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .14½ - —
l.c.l., same basis .....lb. .17 - —
Dichlorodiphenyltrichloroethane (see DDT).

Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works.....lb. .05¾ - —
tanks, works.....lb. .04¼ - —
Dicyclohexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works .....lb. .51¾ - —
tanks, works .....lb. .49¾ - —
Dicyclohexyl phthalate, fib, dms., c.l., works, frt. alld. lb. .58¼ - .59
l.c.l. same basis .....lb. .59¼ - .60
Dieldrin, dms., frt. alld .....lb. 1.80 - —
l.c.l., frt. alld .....lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .26½ - —
l.c.l., same basis.....lb. .27½ - —
tanks, same basis .....lb. .24½ - —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l., same basis .....lb. .48 - —
tanks same basis .....lb. .45 - —
Ethanolamines, dms., c.l., dlvd. lb. .69 - —
l.c.l., dlvd.....lb. .70 - —
tanks, dlvd.....lb. .67 - —
Oxalate, dms., c.l., frt. alld lb. .42 - —
l.c.l., same basis.....lb. .43 - .45
tanks, same basis.....lb. .40 - —
Phthalate, dms., c.l., dlvd.....lb. .27 - —
l.c.l. dlvd. .....lb. .28 - —
tanks, dlvd. .....lb. .25 - —
Sulfate, dms., c.l., works.....lb. .18¾ - —
l.c.l. works .....lb. .19¼ - —
tanks works .....lb. .17 - —
Diethylamine, dms., c.l., dlvd E lb. .50½ - —
l.c.l., same basis .....lb. .51½ - —
tanks same basis .....lb. .48½ - —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis.....lb. .52 - —
tanks, same basis .....lb. .50 - —

Corn Sugar—Diglycol Stearate

Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E, lb. .17¼ - —
l.c.l., same basis.....lb. .18¼ - —
tanks, same basis.....lb. .15¼ - —
Boriborate, dms., l.c.l..... lb. .31 - —
Diethyl ether, dms., works lb. .46½ - —
l.c.l., works .....lb. .47 - —
Monobutyl ether, dms., c.l., works lb. .28¾ - —
l.c.l., works.....lb. .29¼ - —
tanks, works .....lb. .27 - —
Acetate, dms., c.l., works.lb. .30 - —
l.c.l., works .....lb. .30½ - —
tanks, dlvd. E .....lb. .28¼ - —
Monoethyl ether, dms., c.l., dlvd. lb. .22 - —
l.c.l., dlvd.....lb. .23 - —
tanks, dlvd.....lb. .20 - —
Acetate, dms., c.l., works lb. .26¾ - —
l.c.l., works .....lb. .27¼ - —
tanks, dlvd. E .....lb. .25¼ - —
Monomethyl ether, dms., c.l., dlvd. lb. .20½ - —
l.c.l., dlvd.....lb. .21½ - —
tanks, dlvd.....lb. .18½ - —
Diethylenetriamine, dms., c.l., dlvd, E lb. .43 - —
l.c.l., same basis .....lb. .44 - —
tanks, same basis .....lb. .41¼ - —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo 100.00 - —
1-kilo lot .....kilo.110.00 - —
Digitalis leaves, USP, dom. dms., lb .90 - 1.10
Digitoxin, USP, bots.....gram. 5.00 - 5.50
Diglycol laurate, dms..... lb. .35 - .38
Oleate, dms .....lb. .31 - —
Stearate, dms.....lb. .26 - .27



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SOLVENTS

WHEN YOU STANDARDIZE on Shell "Quality Group" solvents, you gain in several important ways. You get prompt shipment from Shell Chemical's strategically located bulk depots. You get guaranteed high purity at no extra cost. And you can save money by taking advantage of bulk prices available through compartment tank car and truck deliveries.

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IN CANADA: Chemical Division, Shell Oil Company of Canada, Limited • Montreal • Toronto • Vancouver

Dihexyl Sebacate—Dyes, Coaltar, for Cloth Dyeing

Dihexyl sebacate dms., c.., works lb. .64 —
l.c.l., works lb. .64½- .65
tanks, works lb. .62 —
Dihydrazine sulfate, dms., works. lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .07 - .09
Sulphate, bulk gram. .07 - .09
2,2-Dihydroxy 5,5'-dichloro-diphenyl-methane, pure, dms lb. 2.80 3.00
tech. dms lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd lb. .16½- —
tanks, same basis lb. .13½- —
Phthalate, dms, c.l., dlvd E lb. .31 - —
l.c.l. same basis lb. .32 - —
tanks, same basis lb. .29 - —
Di-isobutylene, dms., c.l., dlvd. E lb. .10 - —
l.c.l., dlvd. E lb. .11 - —
tanks, dlvd E lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .32½- —
l.c.l., same basis lb. .33½- —
tanks, same basis lb. .30½- —
Sebacate, dms., c.l., works, lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
Di-isopropanolamine, dms., c.l., dlvd. lb. .22¾- —
l.c.l., same basis lb. .23¼- —
tanks, same basis lb. .20¾- —
Di-isopropylamine, dms., c.l., dvd. E. of Rockies lb. .50 - —
l.c.l. same basis lb. .51 - —
tanks, same basis lb. 48 - —
Dillseed, dewhiskered, bgs lb. .10½- —
nat., bgs. lb. .09½- —

Dimethyl anthranilate, cns. lb. 5.25 - 5.75
Chloroacetal, dms., c.l., works lb. .45 - —
l.c.l., works lb. .50 - —
tanks, works lb. .40 - —
Ethanolamines, anhyd., dms., c.l., dlvd lb. 1.43 - —
l.c.l. dlvd lb. 1.45 - —
tanks, dlvd lb. 1.40 - —
70% dms., c.l., dlvd., 100% basis lb. 1.02 - —
l.c.l., dlvd., 100% basis lb. 1.03 - —
tanks, dlvd., 100% basis lb. 1.00 - —
Hydroquinone, dms. lb. 1.70 - 2.75
Phthalate, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30½- —
tanks, dlvd lb. .27½- —
Sebacate, dms., c.l., works lb. 1.27 - —
l.c.l., works lb. 1.28 - —
tanks, works lb. 1.25 - —
Sulfate, 55-gal., ret. dms., c.l. works lb. .15 - —
l.c.l. works lb .16 - —
10-gal ret dms., l.c.l. works. lb. .16½- —
Dimethylamine, 25% soln., dms., c.l., frt equald lb. .42 - —
l.c.l. frt equald lb. .42½- —
tanks, frt. equald lb. .33 - —
40% soln. dms., c.l., frt. equald lb. .39 - —
l.c.l. frt. equald lb. .39½- —
tanks, frt. equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l. frt. alld lb. .30½- —
tanks, frt. alld lb. .28½- —
N,N-Dimethylformamide dms., works. lb. .34 - .39
tanks, works lb. .33 - —
2,4-Dinitroaniline, dms., frt. equald lb. .57 - —

m-Dinitrobenzene, 85°C., dms lb. .22 - —
89°C., dms. lb. .24 - —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼- —
l.c.l., frt. alld E lb. .15¾- —
tanks, frt alld., E lb. .15 - —
2,4-Dinitrophenol, bbls. lb. .37 - —
2,4-Dinitrotoluene, oily, dms lb. .10 - —
refd., 63 C., dms lb. .21 - —
Dioctyl adipate dms., c.l., works. lb. .44½- —
l.c.l. works lb. .45½- —
tanks, works lb. .42½- —
Phthalate, dms., c.l., frt. alld lb. .32½- —
l.c.l., frt. alld lb. .33½- —
tanks, frt. alld lb. .30½- —
Sebacate, dms. c.l., works, lb. .60 - —
l.c.l., works lb. .60½- .61
tanks, works, dlvd lb. .58 - .58½
Di-o-tolyguanidine, dms., ton lots, dlvd lb. .60 - —
smaller lots, dlvd lb. .61 - —
1,4-Dioxane, dms., c.l., works lb. .28¾- —
l.c.l. same basis lb. .29¼- —
tanks, same basis lb. .27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works. .35 - —
Dipentene, dest-dist., dms., c.l., works gal. .405 - —
l.c.l., works gal. .455 - —
ex-whse gal. .57 - —
steam-dist., dms. c.l. works, South. gal. .64 - —
dlvd. N. Y gal. .82 - —
tanks, works, South gal. .50 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns lb. .54 - .61
Phthalate, dms., c.l., works lb. .51¾- —
l.c.l., works lb. .53¾- —

Diphenylguanidine, bgs., dms., ton lots lb. .50 - —
smaller lots lb. .51 - .52
Diphenylhydantoin-sodium USP, dms lb. 5.30 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17¼- —
l.c.l., same basis lb. .18¼- —
tanks, same basis lb. .15¼- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l. same basis lb. .21 - —
tanks, same basis lb. .18½- —
Divi divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock ton 70.00 72.00
Divinylbenzene, 20-25% dms., c.., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. 19 - —
40-50%, dms., c.l., works, 100% basis lb. 1.00 - —
l.c.l., works, 100% basis lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14 - —
l.c.l., same basis lb. .15 - —
tanks, same basis lb. .12 - —

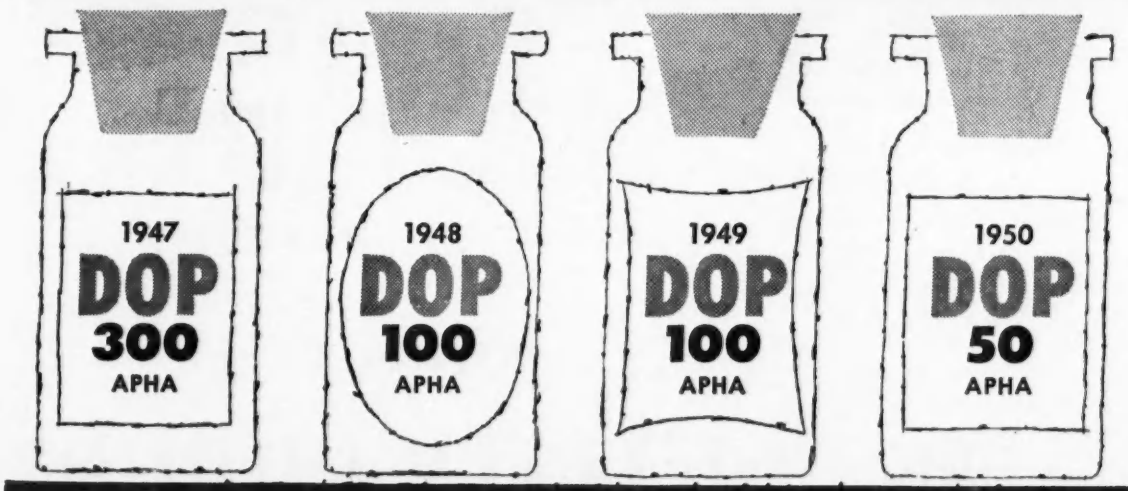
Dyes, coaltar, certified colors for food, drugs and cosmetics. 5-lb and 1-lb. lots, dlvd:—
Blue, FD & C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.17.00 -17.60
Green, FD & C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.22.20 -22.85
No. 3, cns lb.35.25 -35.90
Orange, FD & C, No. 1, cns lb 3.65 - 3.75
No. 2, cns lb 4.65 - 4.75
Red, FD & C, No. 1, cns lb 7.55 - 7.85
No. 2, cns lb 4.00 - 4.10
No. 3, cns lb.22.20 -22.85
No. 4, cns lb 7.20 - 7.50
No. 32, cns lb 5.30 - 5.40
Violet, FD & C, No. 1, cns lb.17.00 -17.60
Yellow, FD & C, No. 1, cns lb.10.50 -11.05
No. 3, cns lb. 3.30 - 3.40
No. 4, cns lb. 3.30 - 3.40
No. 5, cns lb. 4.00 - 4.10
No. 6, cns lb 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Black, D&C, No. 1, cns lb.10.95 - —
Brown, D&C, No. 1, cns lb.16.10 - —
Green, D&C, No. 5, cns lb.16.10 - —
No. 6, cns lb.16.10 - —
No. 7, cns lb.14.80 - —
Orange, D&C, No. 3, cns lb 10.95 - —
No. 4, cns lb.20.05 - —
No. 5, cns lb 5.70 - —
No. 10, cns lb.20.70 - —
Red, D&C, No. 8, cns lb 2.85 - —
No. 9, cns lb 2.85 - —
No. 10, cns lb 2.30 - —
No. 11, cns lb 1.85 - —
No. 12, cns lb 2.65 - —
No. 17, cns lb.10.95 - —
No. 18, cns lb.24.00 - —
No. 19, cns lb.15.45 - —
No. 21, cns lb 3.60 - —
No. 22, cns lb.10.95 - —
No. 28, cns lb.24.65 - —
No. 33, cns lb.17.45 - —
Violet, D&C, No. 2, cns lb.16.10 - —
Yellow, D&C, No. 7, cns lb.10.95 - —
No. 10, cns lb.13.50 - —
No 11, cns lb.13.50 - —

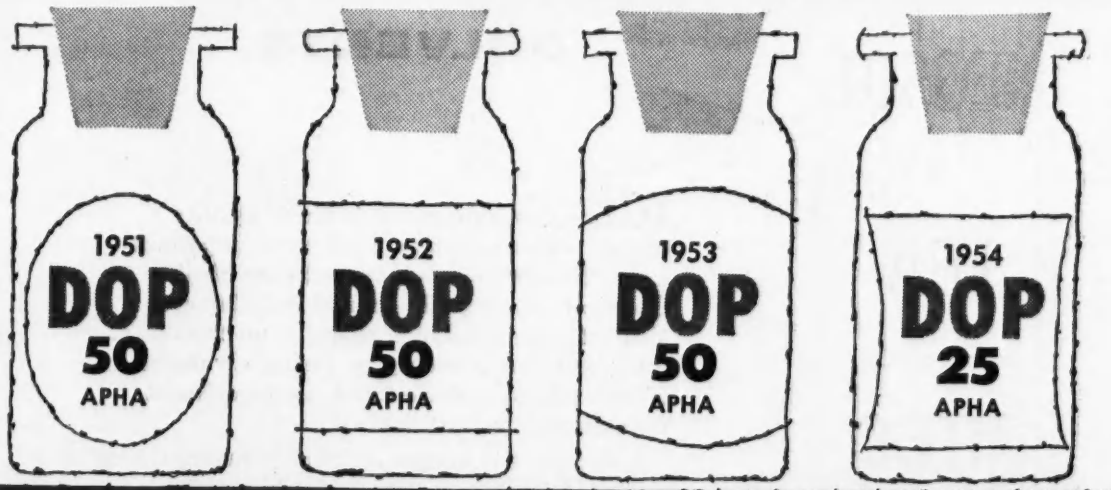
Dyes, coaltar, certified, colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Blue, Ext., D&C, No. 1, cns lb.16.10 - —
Green, Ext., D&C, No. 1, cns lb.16.10 - —
Red, Ext., D&C, No. 1, cns lb.13.50 - —
Yellow, Ext., D&C, No. 1, cns lb.10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No
20 Chrysoidine Y, dustless lb. .81 - —
27 Fast light orange 2G lb. .99 - —
31 Phloxine 2G lb. .81 - —
36 Yellow 2G lb. .91 - —
40 Orange R extra, conc lb. 1.17 - —
57 Fuchsine 6B lb. 1.19 - —
79 Scarlet 2R lb. .89 - —
151 Orange AD lb. .61 - —
161 Orange RR lb. .73 - —
176 Fast red A lb. 1.07 - —
179 Rubine XX, conc lb. 1.14 - —
180 Blue F4B lb. 1.01 - —
185 Brilliant scarlet 3RN, conc. lb. .93 - —
202 Chrome blue black R, conc. lb. .83 - —
203 Chrome black T lb. .86 - —
208 Fast blue SR lb. 1.00 - —
216 Chrome red B lb. .84 - —
234 Brown Y lb. .98 - —
246 Blue black, extra, conc lb. 1.05 - —
275 Milling red 3R, conc lb. 2.03 - —
289 Navy blue 3R, conc lb. 1.31 - —
299 Black F, conc lb. 1.69 - —
304 Neutral black 2B, conc. lb. 2.21 - —
326 Fast scarlet 4BNC lb. 1.64 - —
332 Bismark brown RX, conc. lb. .95 - —
365 Brilliant yellow, conc lb. 2.83 - —
382 Scarlet B lb. 2.00 - —
401 Diazo black BHD lb. .72 - —
406 Blue 2B, extra conc lb. 1.18 - —
419 Red FC, conc lb. 1.12 - —
420 Brown M lb. 1.08 - —
448 Red 4BX, conc lb. 1.30 - —
518 Diamine sky blue FF, extra, conc lb. 1.50 - —
561 Brown B lb. 2.23 - —
581 Black EB, 200% lb. 1.03 - —
593 Green BY, conc lb. .79 - —
596 Yellow Brown K, extra lb. .98 - —
620 Yellow 2G lb. 1.79 - —
640 Yellow XX lb. 1.61 - —
655 Yellow OX lb. 2.04 - —
657 Green V lb. 2.10 - —
662 Brilliant green G lb. 2.79 - —
667 Brilliant milling green 6B, conc. lb. 3.68 - —
671 Blue EG lb. 1.70 - —
681 Crystal violet powder lb. 2.15 - —
698 Violet 4BXN lb. 1.74 - —
720 Brilliant blue BBG lb. 1.88 - —
729 Blue B, conc lb. 2.79 - —
749 Red BX lb. 4.33 - —
814 Yellow NN, conc lb. 3.11 - —
841 Safranine GF, extra, conc. lb. 3.17 - —
863 Nigrosine WSJ lb. .75 - —
922 Blue GXX lb. 1.71 - —
970 Black GXCF, conc lb. .52 - —
1034 Alizarine red SC lb. 2.59 - —
1054 Alizarine blue SAPX lb. 2.91 - —
1078 Alizarine green CG, extra. lb. 2.72 - —
1085 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste. lb. 1.75 - —
1101 Jade green N, double paste. lb. 1.98 - —
1106 Blue RS, double paste lb. 3.26 - —
1217 Orange RD, single paste lb. 1.65 - —
1113 Blue BLFD, double paste lb. 2.48 - —
1150 Olive R, single paste lb. 1.10 - —
1151 Brown R, single paste lb. 1.76 - —
1171 Indigo synthetic, 20% paste lb. .31 - —
p-4 Brown PG lb. 2.30 - —
p-14 Brown EB lb. 1.66 - —
p-24 Gray L lb. 1.60 - —
p-80 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc lb. 1.91 - —
p-244 Brilliant scarlet BN lb. 1.31 - —
p-313 Naphthol SWF lb. 2.42 - —

The DOP color standards



of the industry have been—and are—



those established by Eastman

Before Eastman began production of dioctyl phthalate the accepted industry color standard was 300 APHA.

The first Eastman specifications in 1948 called for production of a 100 APHA dioctyl phthalate. Then in 1950, this was lowered to 50 . . . and in 1954, to only 25.

Eastman has led the way in the steady improvement of DOP quality. New production and refining methods have produced in today's Eastman DOP a truly high quality dioctyl phthalate whose combination of low color, low odor, low acidity, high heat stability and high ester content is unsurpassed.

We invite you to test the high quality of Eastman DOP in your own laboratory or in your own formulations. Write for specifications and sample quantities.

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tenn.; New York—260 Madison Ave.; Framingham, Mass.—65 Concord St.; Cincinnati—Carew Tower; Cleveland—Terminal Tower Bldg.; Chicago—360 N. Michigan Ave.; Houston—412 Main St.; St. Louis—Continental Bldg. **West Coast: Wilson Meyer Co.,** San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Salt Lake City—73 S. Main St.; Seattle—821 Second Ave.

Eastman
CHEMICAL PRODUCTS, INC.
KINGSPORT, TENNESSEE
subsidiary of EASTMAN KODAK COMPANY

Dyes, coaltar, for stains, oil-soluble, 100-lb dms., sellers' works
Black blue No. 550 lb. .81 - —
Jet No 551 lb. .89 - —
Brown R, conc lb. 1.72 - —
Orange R, brilliant lb. .90 - —
Red 4B, conc lb. 1.37 - —
Yellow C lb. 1.18 - —
YN, conc lb. 1.22 - —

Dyes, coaltar for stains, spirit-soluble 100-lb. dms., sellers' works:—
Auramine O lb. 1.85 - —
Black, basic blue lb. 1.21 - —
Jet lb. 1.21 - —
Blue, methylene, 2B, conc lb. 1.71 - —
Brown Bismarck R, conc lb. .86 - —
Chrysoidine, R, extra lb. .60 - —
Y, extra lb. .64 - —
Fuchsine, conc lb. 3.08 - —
Green, malachite, conc lb. 2.10 - —
Rhodamine, B lb. 4.33 - —
Safranine, Y, conc lb. 2.90 - —
Violet, methyl, B lb. 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—
Azo rubine R, extra, conc lb. 1.04 - —
Black, acid blue, B, extra lb. .86 - —
Fast light, 3 G, extra lb. 2.04 - —
Methanil, conc lb. .91 - —
Orange acid Y, conc lb. .47 - —
Scarlet croceine, MOO lb. 1.45 - —
Yellow, azo, conc lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls lb 1.10 - —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls lb. 1.07 - 1.09
tanners bbls lb .06 - 06½
Elm bark, grinding, bis lb .30 - .32
powd., bbls., bxs lb .45 - —
select, bundles lb. .75 - —
Emetine hydrochloride, USP, bots oz. 42.50 - 44.00
Endrin, tech., dms., dlvd., 100% basis lb. 3.75 - —
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots oz. .98 - 1.00
hydrous, bots., 100-oz. lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots. oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots. oz. .72 - —
powd., tins, 100-oz. lots oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd lb. .36 - —
tanks, dlvd lb. .33 - —
Epinephrine, syn. USP, bots., 100-gram lots gram .45 - .55
Epsom salt (see Magnesium sulfate).
Ergosterol, unirradiated, cryst kilo. 150 00 - —
Ergot, NF, dms., tin-lined lb 3.00 - —
Eserine salicylate, bots oz. 84.00 - —
Sulfate, bots oz. 84.00 - —
Ether (see specific product)
Ethyl acetate, nat. ferment., 85-88%, dms., c.l., frt. alld lb. .13 - —
l.c.l., frt. alld lb. .14 - —
tanks, frt. alld lb. .11 - —
95-98%, dms., c.l., frt. alld, lb. .13¼ - —
l.c.l., frt. alld lb. .14¼ - —
tanks, frt. alld lb. .11¼ - —
99%, dms., c.l., frt. alld lb. .13½ - —
l.c.l., frt. alld lb. .14½ - —
tanks, frt. alld lb. .11½ - —
syn., 85-88%, dms., c.l., dlvd lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
95-98%, dms., c.l., dlvd lb. .13¼ - —
l.c.l., dlvd lb. .14¼ - —
tanks, dlvd lb. .11¼ - —
99%, dms., c.l., dlvd lb. .13½ - —
l.c.l., dlvd lb. .14½ - —
tanks, dlvd lb. .11½ - —
Acetoacetate, dms., c.l., dlvd lb. .58 - —
l.c.l., dlvd lb. .59 - —
tanks, dlvd lb. .56 - —
Acrylate, dms., c.l., t.l., dlvd lb. .40½ - —
l.t.l., dlvd lb. .41½ - —
tanks, dlvd lb. .38¾ - —
Aminobenzoate, USP (see Benzocaine).
Bromide, tech., 98%, dms., c.l., frt. alld, E lb. .41 - —
l.c.l., frt. alld E lb. .43 - —
Butyl ketone, dms., c.l., works lb. .35½ - —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Butyrate, works lb. .80 - 1.02
Carbamate (see Urethane)
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 - —
smaller lots, works lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .65 - .70
smaller lots, works lb. .67 - .81
Chloride, tech., cyl., works lb. .20 - .22
dms., works lb. .18 - .20
tanks, works lb. .10 - —
Cinnamate, cns lb. 2.71 - 3.45
Ethanolamines, mixed, dms., c.l., frt. alld, E. Miss lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .40½ - —
indust., dms., c.l., dlvd, E lb. .12 - —
l.c.l., dlvd, E lb. .13 - —
tanks, dlvd, E lb. .10 - —
Ether, absolute, ACS, dms lb. .27 - —
anesthesia, USP, hospitals, 1-lb. cns lb. .89 - —
½-lb. cns lb. .27 - —
¼-lb. cns lb. 1.05 - —
indust., c.l., dlvd, E lb. .12 - —
l.c.l., dlvd, E. lb. .13 - —
tanks, dlvd, E. lb. .10 - —
Gallate, dms., 100 to 2,000-lb. lots. lb. 3.90 - 4.40
Iodide, cbys., works lb. 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works, frt. equald. lb. .51½ - .52
Morphine hydrochloride, USP, bots oz. 11.85 - —
Nitrite (see Nitrous ether).
Oenanthate, dms. lb. 1.00 - 1.50
Oleate, dms., l.c.l., works lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethylorthosilicate).
40% available SiO_2, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd lb. .50 - —
tanks, dlvd lb. .47 - —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 - —
N-Ethyl-o-toluidine, bbls lb. .88 - —
Ethylamine (see Mono, Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld, lb. .51 - —
l.c.l., frt. alld lb. .52 - —
tanks, frt. alld lb. .50 - —
Ethylbenzene, 99%, dms., c.l. lb. .19½ - .20¼
l.c.l. lb. .20½ - .21¼
tanks lb. .18½ - —
Ethylene dichloride, dms., c.l., dlvd lb. .10¼ - —
l.c.l., same basis lb. .12¼ - —
tanks, same basis lb. .09 - —
Ethylene dichloride prices W. of Rockies 1c per lb higher.
Glycol, indust., dms., c.l., dlvd, E. lb. .15½ - —
l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .13½ - —
Ethylene glycol, monobutyl ether, dms., c.l., dlvd, E lb. .21½ - —
l.c.l., dlvd, E lb. .22½ - —
tanks, dlvd, E lb. .19½ - —
Monoethyl ether, dms., c.l., dlvd, E lb. .20½ - —
l.c.l., dlvd, E lb. .21½ - —
tanks, dlvd, E lb. .18½ - —
Acetate, dms., c.l., dlvd, E lb. .28¾ - —
l.c.l., dlvd E lb. .29¼ - —
tanks, dlvd E lb .27 - —
Monostearate, triple pressed, dms lb. .34 - —
Oxide, dms., c.l., dlvd, E lb. .21½ - —
l.c.l., dlvd, E lb. .24½ - —
tanks, dlvd, E lb. .15½ - —
Trichloride (see Trichloroethane).
Ethylenediamine 83-88% dms., c.l., dlvd, E, 100% basis lb. .48 - —
l.c.l., dlvd, E, 100% basis lb. .47 - —
tanks, dlvd, E, 100% basis lb. .44 - —
Ethylvanillin, cns., 25-lb lots lb. 6.75 - 7.30
smaller lots lb 7.35 - 7.40
Eucalyptol, USP, cns, dms lb 1.40 - 1.50
Eugenol, USP, bots. lb. 2.20 - 3.25
Euphorbia herb, bls lb .15 - .17

F

Feldspar, 140-200 mesh, bulk, c.l., works ton 19.50 - —
Feldspar in bags $3 per ton higher
Fennel seed, Argentine, bgs lb. .17 - —
Czech, medium, bgs lb. .11 - —
Indian, light, bgs lb. .12 - —
Fenugreek seed, Indian, bgs. lb. .09 - —
Moroccan, bgs. lb. .09 - —
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ - —
soln., USP IX, cbys lb. .16 - —
djns. lb. .17 - —
Carodylate, NF, bots lb. 13.00 - 14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 7.60 - —
indust. cryst. bbls. c.l. works, 100 lbs. 4.75 - 5.25
l.c.l. works 100 lbs. 5.75 - 6.25
42° Be, photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald, 100% basis, 100 lbs. 3.50 - —
USP cryst. dms. works lb .07¼ - .09
Citrate, gran., dms. lb. .86 - —
Hydrophosphite, NF, dms lb. 3.45 - —
Naphthenate liq. 6% Fe., dms., frt. alld lb. .25¾ - —
Oxalate, gran., dms. lb. .85 - .87
Phosphate, NF soluble, gran., pearls cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 - .81
Resinate, 6¾% Fe, dms., frt. alld lb. .29½ - —
Stearate, dms., c.l., frt. alld lb. .37 - —
l.c.l., frt. alld lb. .38 - .42
Sulfate, partially hydrated, bgs., c.l. works ton 31.75 - 33.75
l.c.l., works ton 34.75 - 40.75
lb. .37 - —
Ferric-ammonium citrate, brown, NF, gran., dms lb. .56 - .59
green, USP XII, gran., dms lb. .56 - .59
Oxalate, fine gran., dms lb. .25½ - .28½

Dyes, Coaltar, For Stains—Fuller's Earth, Powd., Calcined

Ferric-potassium oxalate fine gran., dms lb. 30½ - 33¼
Ferric-sodium oxalate, fine gran., dms lb 25½ - 28¼
Ferrous gluconate, NF dms lb. 88 - —
Sulfate, gran. bgs., c.l., works. ton 34 50 - —
l.c.l. dlvd Metropolitan area 100 lbs 3 35 - 4 25
bbls c.l. works ton 10 00 - —
bulk c.l. works ton 27 00 - —
USP cryst. bbls dms lb 09½ - .10
Fir balsam Canada, cns gal. 32 00 - —
Oregon, bbls gal. 4.00 - —
Fishliver oil (see Oil fishliver).
Fishmeal, dom., menhaden, 60% protein grd., bgs., Chesapeake Bay area ton. 133.00 - —
Fishscrap menhaden dried, 60% protein, bgs., Balto area ton. 129.00 - —
Formaldehyde, NF, 37%, (inhibited), methanol, Zone 1, dms., c.l., dlvd lb. .0675 - —
l.c.l., works lb. .072 - .0725
tanks, dlvd lb. .04 - —
Zone 2, 12-15%, methanol, dms., c.l., dlvd lb. .071 - —
tanks, dlvd lb. .043 - —
Methanol-free (uninhibited), Zone 1, tanks, dlvd lb. .0375 - —
Zone 2, tanks, dlvd lb. .04 - —
Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. 60 - 61
Fuller's earth, bgs., c.l., Ill. mines. ton. 19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton. 17.50 - —
calcined, bgs., c.l., same basis ton. 20.00 - 21 75

MONTROSE
CHEMICAL COMPANY
104-112 LISTER AVENUE
NEWARK, NEW JERSEY

tricresyl phosphate
.....
dioctyl phthalate
.....
dibutyl phthalate
.....

EXCLUSIVE SALES AGENTS
R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
2205 TRIBUNE TOWER, CHICAGO, ILLINOIS

Fuller's Earth, Oil Bleaching Grade—Hexalin

Fuller's earth, oil-bleaching, grade, 100-mesh, bgs., c.l., same basis ..ton. 16.50 -17.00
200-mesh, bgs., c.l., same basis ..ton. 17.50 -18.00
spent, bgs., c.l., shipt. point ..ton. 4.50 - 5.00
Furfural, dms., c.l., works ..... lb. .13 - —
l.c.l., works ..... lb. .14 - —
tanks, dlvd. E ..... lb. .12 - —
dlvd. W ..... lb. .13 - —
Fusel oil, refd., dms., c.l., dlvd ..... lb. .22 - —
l.c.l., dlvd. ..... lb. .23 - —
tanks, dlvd. ..... lb. .20 - —
Fustic extract, cryst., No. 1, bbls., l.c.l ..... lb. .47½- —
No. 2, bbls., l.c.l ..... lb. .45½- —
No. 3, bbls., l.c.l ..... lb. .43½- —
liq., No. 1, bbls., l.c.l ..... lb. .22½- —
No. 2, bbls ..... lb. .21½- —
No. 3, bbls., l.c.l ..... lb. .19 - —
solid, No. 1, bxs., l.c.l ..... lb. .45 - —

G

G salt, bbls., frt. alld., 100% basis ..lb. .73 - —
Gammapicoline (see g-Picoline)
Gelatin, edible, pure (pork skin), 75 Bloom test, bbl., c.l. lb. .53 - —
150 Bloom test, bbl., c.l. lb. .64 - —
200 Bloom test, bbl., c.l. lb. .71 - —
225 Bloom test, bbl., c.l. lb. .74 - —
275 Bloom test, bbl., c.l. lb. .81 - —
Gelsemium root, bls ..... lb. .23 - .24
Gentian root, bls ..... lb. .17 - .20
grd., bbls., bxs ..... lb. .22 - .23
powd., bbls., bxs ..... lb. .23 - .24
Geraniol, extra, cns., dms ..... lb. 3.90 - —
standard, cns., dms ..... lb. 3.65 - —
Geranyl acetate, cns ..... lb. 3.90 - —
Ginger oleoresin, NF, from African root, bots. ..lb. 4.00 - 7.75
from Jamaican root, bots. ..lb. 6.00 -10.25
Hide glue l.c.l. prices 1c. higher.
Root, African, bls ..... lb. .37 - .38
Cochin, bgs. ..... lb. .36 - —
Jamaica, No. 1, bgs ..... lb. No prices.
No. 2, bgs ..... lb. .48 - —
No. 3, bgs. ..... lb. .47 - —
Nigerian, split, bgs ..... lb. .35 - .36
Glauber's salt, anhyd. (see Sodium sulfate).
Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd. ..lb. .15 - —
104 jellygrams, same basis ..lb. .17 - —
131 jellygrams, same basis ..lb. .18 - —
164 jellygrams, same basis ..lb. .20½- —
191 jellygrams, same basis ..lb. .21 - —
222 jellygrams, same basis ..lb. .22 - —
packers' 40 jellygrams, bgs., c.l., dlvd ..lb. .14 - —
65 jellygrams, same basis ..lb. .14½- —
86 jellygrams, same basis ..lb. .15 - —
115 jellygrams, same basis ..lb. .15½- —
135 jellygrams, same basis ..lb. .18½- —
164 jellygrams, same basis ..lb. .19½- —
renderers' 115 jellygrams, bgs., c.l., dlvd ..lb. .15 - —
Bone glue, l.c.l., prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd ..lb. .15 - —
95-121, bgs., c.l., dlvd ..... lb. .16 - —
122-149, bgs., c.l., dlvd ..... lb. .18½- —
150-177, bgs., c.l., dlvd ..... lb. .21 - —
178-206, bgs., c.l., dlvd ..... lb. .23½- —
207-236, c.l., dlvd ..... lb. .26 - —
237-266, bgs., c.l., dlvd ..... lb. .28 - —
267-298, bgs., c.l., dlvd ..... lb. .30 - —
299-330, bgs., c.l., dlvd ..... lb. .32 - —
331-362, bgs., c.l., dlvd ..... lb. .34 - —
363-394, bgs., c.l., dlvd ..... lb. .36 - —
Glue, hide, 395-427 jellygrams, bgs., c.l., dlvd. ..lb. .38 - —
428-460, bgs., c.l., dlvd ..... lb. .39 - —
461-494, bgs., c.l., dlvd ..... lb. .40 - —
495-529, bgs., c.l., dlvd ..... lb. .41 - —
Glycerine, nat., crude, saponification, 88%, to refineries, tanks, lb. .23 - —
soapIye, 80%, tanks ..... lb. .21 - —
refd., BP, 98%, dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd ..... lb. .31 - —
tanks, dlvd ..... lb. .30 - —
dynamite, dms., c.l., dlvd ..lb. .30½- —
l.c.l., dlvd ..... lb. .31 - —
tanks, dlvd ..... lb. .30 - —
high gravity, dms., c.l., dlvd. lb. .30½- —
l.c.l., dlvd ..... lb. .31 - —
tanks, dlvd ..... lb. .30 - —
USP, CP, 95% dms., c.l., dlvd. lb. .29½- —
l.c.l., dlvd ..... lb. .30 - —
tanks, dlvd ..... lb. .29 - —
yellow, distilled, dms., c.l., dlvd ..lb. .30 - —
l.c.l., dlvd ..... lb. .30½- —
syn., dms., c.l., dlvd ..... lb. .30½- —
l.c.l., dlvd ..... lb. .31 - —
tanks, dlvd ..... lb. .30 - —
Glycine (see Acid aminoacetic).
Glyceryl (see Glycerine).
Glycol, 95%, dms., c.l., works ..lb. .18½- —
works ..... lb. .19 - —
works ..... lb. .18 - —
Goldenseal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs ..... lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09¼
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21¼
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, brown, tanks, dlvd ..... lb. .05½- —
house, tanks, dlvd ..... lb. .06½- —
white, choice, all hog, tanks, dlvd ..lb. .08½- —
not all hog, tanks, dlvd ..lb. .08 - —
yellow, tanks, dlvd ..... lb. .07 - —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works. lb. 6.20 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis. lb. .43 - —
50% bbls. same basis lb. .48 - —
reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., dms., c.l., frt. alld ..lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld ..lb. .39¾- —
l.c.l., same basis ..... lb. .40¼- —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green)
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls ..... lb. 3.50 - —
water dispersable, bbls ..lb. 1.71 - —
Pigment B, kegs ..... lb. 1.35 - —
paste, kegs ..... lb. .38 - —
Grindelia robusta herb, bls ..... lb. .38 - .40
Guaiacol, NF, cryst., dms., tins lb 2.10 - 2.15
liq., cbys., dms ..... lb 2.30 - 2.40
Carbonate, NF VII, dms ..... lb 3.40 - 3.45
Gum, aloe (see Aloe)
Arabic amber sorts, bgs ..... lb. .22 - .23
powd., USP, bbls ..... lb. .27 - .28
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs ..... lb. .38 - .42
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 - —
smaller lots, same basis ... lb. .57 - —
Copal, Congo, No. 1, bgs ..... lb. .23 - —
No. 2, bgs ..... lb. .18½- .20
No. 3, bgs ..... lb. .16½- .18
Manila C, bgs ..... lb. .42 - .44
CBB, bgs ..... lb. .37 Nom.
DBB, bgs ..... lb. .33 - .35
DK, bgs ..... lb. No Stocks
dust, bgs ..... lb. .14 - .16
MA, soft, bgs ..... lb. .23 - .25
WS, bgs ..... lb. .34 - .36
Philippine, pale, chips, bgs ..lb. .24 - .26
nubs, bgs ..... lb. .34 - .36
seeds, bgs ..... lb. .20 - .22
sorts, bgs ..... lb. .22 - —
Pontianak, chips, bgs. ..... lb. .28 - —
nubs, bgs ..... lb. .39 - .40
Dammar, Batavia, A, E, cs. ..... lb. .27 - .29
dust, bgs ..... lb. .16½- .17¼
E, bgs ..... lb. .20 - .22
East India, batu, bold, bgs ..lb. .14 - .15¼
nubs and chips, bgs ..... lb. .08 - .09
black, bold, bgs ..... lb. .14 - .16
unscraped, bgs ..... lb. .11 - .13
nubs and chips, ogs ..... lb. .11 - .13
pale chips, bgs ..... lb. .13½- .14¼
nubs, bgs ..... lb. .18 - .20
Siam, cs. ..... lb. .37 - —
Singapore, No. 1, bgs ..... lb. .43 - .45
No. 2, bbls ..... lb. .27 - .29
No. 3, bbls ..... lb. No stocks.
dust, bgs ..... lb. .16½- .17
seeds, bgs ..... lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va. lb. .14½- .16
wood-rosin type, dms., c.l., same basis ..lb. .15 - .16
Guar, food grade, bgs., l.c.l ... lb. .40 - .50
tech. grade, bgs., c.l ..... lb. .32 - —
Karaya, No. 1, NF, powd., bbls. lb. .55 - —
No. 2, powd., bbls. ..... lb. .45 - —
No. 3, powd., bbls ..... lb. .40 - —
Locust bean, powd., bgs ..... lb. .28 - .30
Myrrh, cs. ..... lb. .38 - .40
Opium (see O).
Olibanum siftings, cs ..... lb. .15 - .20
tears, cs. ..... lb. .22 - .30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs lb. 3.00 - 3.50
No. 2, cs ..... lb. 2.55 - 2.60
No. 3, cs ..... lb. 1.75 - 1.80
powdered, USP, bbls ..... lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper, bgs., trucks, dlvd. N Y C ton 20.30 - —
terra alba, dom., paper bgs., same basis ..ton. 19.00 - —
works, N. Y. C. ..... ton. 16.00 - —
imp. English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ..... ton. 60.00 -62.00

H

Hawthorn berries, bgs. ..... lb. .28 - .32
Heliotropin, cryst., cns ..... lb. 4.10 - 4.50
Hellebore root, dom., green, bls ..lb. .70 - .75
Helonias root, bls ..... lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. ..... lb. .43 - —
No. 3, bbls., l.c.l. ..... lb. .41 - —
No. 4, bbls., l.c.l. ..... lb. .39 - —
No. 5, bbls., l.c.l. ..... lb. .37 - —
paste, No. 1 bbls., l.c.l. ..... lb. .20½- —
Henbane leaves, bls ..... lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex ..... gal. .14¾- —
Borger, Tex ..... gal. .14¾- —
Hesperidin methylphalcone, bots., works ..... lb 50.00 - —
Hexachlorophene, dms ..... lb 2.60 - —
Hexalin (see Cyclohexanol).

Glycerine is a liquid. There are no bags to lift, no fines. As easily as pushing a button, Glycerine can be piped into your kettles. You can measure it either by volume or by weight. And if you want, it's easy—*and safe*—to add more Glycerine during cooking.

Glycerine has other important advantages in making alkyds, too:

- Its simple molecular structure makes cooking easier.
- Its low MW/Hydroxyl ratio makes a wide range of resin properties economically feasible.
- Its chemistry has been thoroughly evaluated. Methods are perfected and literature abundant.

As year after year proves . . . *nothing takes the place of Glycerine.*

This balanced group of properties keeps Glycerine's usefulness growing

HYGROSCOPICITY • STABILITY • SOLVENT POWER • VISCOSITY • NONVOLATILITY • NONTOXICITY • TASTE • MW/HYDROXYL RATIO • HUMECTANT • CARRIER • SOLVENT • LUBRICANT • SOFTENER • EMOLLIENT • ANTI-FREEZE • ALKYD BASE •

☑ CHECK AND SEND FOR TECHNICAL DATA

☐ 20-page booklet, "Glycerine Alkyds Tailored to Need"

☐ 12-page booklet on Glycerine standards and specifications

☐ 16-page booklet on Glycerine properties and applications

For your free copy of any or all of these booklets write: GLYCERINE PRODUCERS' ASSOCIATION • 295 Madison Ave., New York 17, N.Y.

Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb. lots or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½- —
Borger, Tex gal. .15½- —
1-Hexanol, dms., c.l., works lb. .34½- —
t.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms. lb. 4.00 - 7.50
Salicylate, dms lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .16 - —
t.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .14 - —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb. 14.00 - —
smaller lots, dlvd lb. 14.50 - —
Histamine diphosphate, USP, bots. kilo. 400.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo 80.00 -85.00
1-5 kilo lots, works kilo. 90.00 -95.00
Homatropine hydrobromide, USP, bots oz. 8.50 - —
Methylbromide, USP, bots oz. 5.65 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.00 - —
Horehound herb, bls lb. .16 - .19
Hydrastine bots oz. 29.50 -31.00
Hydrochloride, NF, bots oz. 29.50 -31.00
Sulfate, bots oz. 35.00 -37.00
Hydrastinine, 10-grain bots bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrate, 100%, ret. dms., Lake Charles, La lb. 1.60 - 1.90
Hydrazine, free base, ret. dms., Lake Charles, La. lb. 3.00 - 3.30
85%, ret. dms., same basis lb. 1.35 - 1.55
Hydrocortisone acetate, bulk, bots., dms. gram. 6.00 - —
Alcohol, bulk, bots., dms. gram. 6.00 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
t.c.l., works lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E. lb. .30½- .32½
dlvd. W lb. .39 - —
tanks, works lb. .21 - —
Peroxide, USP, bbls., dlvd lb. .03¾- .05
35%, dms., c.l., dlvd lb. .202 - —
t.c.l., dlvd lb. .211 - —
tanks, dlvd lb. .1800- —
Hydroquinone, photo grade, bbls., dms. lb. .98 - 1.00
tech., dms., c.l., dlvd lb. .77½- —
l.c.l. same basis lb. .79½- —
Hydroxycitronelial, cns lb. 7.65 - 7.90
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots oz. 15.75 -16.00
Hydrobromide, bots oz. 11.00 -12.00
Sulfate, bots oz. 10.50 -11.50
Hypernic extract, cryst., No. 2, bbls., t.c.l. lb. .52 - —
liq., No. 1, bbls., t.c.l. lb. .35 - —
No. 2, bbls., t.c.l. lb. .27 - —

I

Ichthammol, NF, dms lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots lb. 17.00 -21.00
Inositol, bots., dlvd lb. 5.00 - —
cms., dlvd. lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.45 - —
resub, USP, dms., jars lb. 2.30 - 2.32
Iodochlorohydroxyquinolin, USP, dms lb. 5.90 - —
Iodoform, NF, dms., kgs lb. 4.90 - 5.00
a-Ionone, cns. lb. 5.55 - 5.85
b-Ionone, cs. lb. 6.00 - 7.70
Methyl (see under M).
Ipecac root, bgs lb. 8.50 - 9.00
powd., bbls., bxs lb. 10.00 -10.25
Irish moss, bleached, prime, bls lb. .30 - .35
Iron Compounds (see Ferric or Ferrous).
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .62 - .95
Formate, dms lb. .80 - —
Propionate, dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .73 - 1.00
solvent grade, dms., c.l., dlvd. E. of Rockies lb. .13¼- —
l.c.l., same basis lb. .14¼- —
tanks, same basis lb. .11¼- —
Isobutyraldehyde, CP, dms., c.l., dlvd. lb. .27½- —
l.c.l., dlvd lb. .28½- —
tech., dms., c.l., dlvd lb. .21½- —
l.c.l., dlvd lb. .22½- —
tanks, dlvd lb. .19½- —
Isoeugenol, cns. lb. 4.40 - 4.75
Isoniazid, powd., bulk, 25-kilo lots or more kilo. 23.00 -25.50
smaller lots kilo. 24.00 -26.00
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .15½- —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb .22½- —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., dvid. lb. .12 - —
l.c.l., same basis lb. .13 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd lb. .07 - —
l.c.l., dlvd lb. .08 - —
tanks, dlvd lb .03 - —
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l., works lb. .70 - —
l.c.l., works lb. .714 - .814
Isopropyl-N-phenyl carbamate, 450-lb. fib dms., c.l., t.l., works. lb. .75 - —
l.c.l., works lb. .80 - .90
Isopropylamine (see Mono, Di, or Tri-).
Isoquinoline, dms., works lb. .85 - 1.25

J

Jalap root, NF, bls lb. .28 - .33
powd., bbls., bxs lb. .49 - .66
Juniper berries, bgs lb. .18 - .20
Tar, NF, dms lb. .42 - .60

K

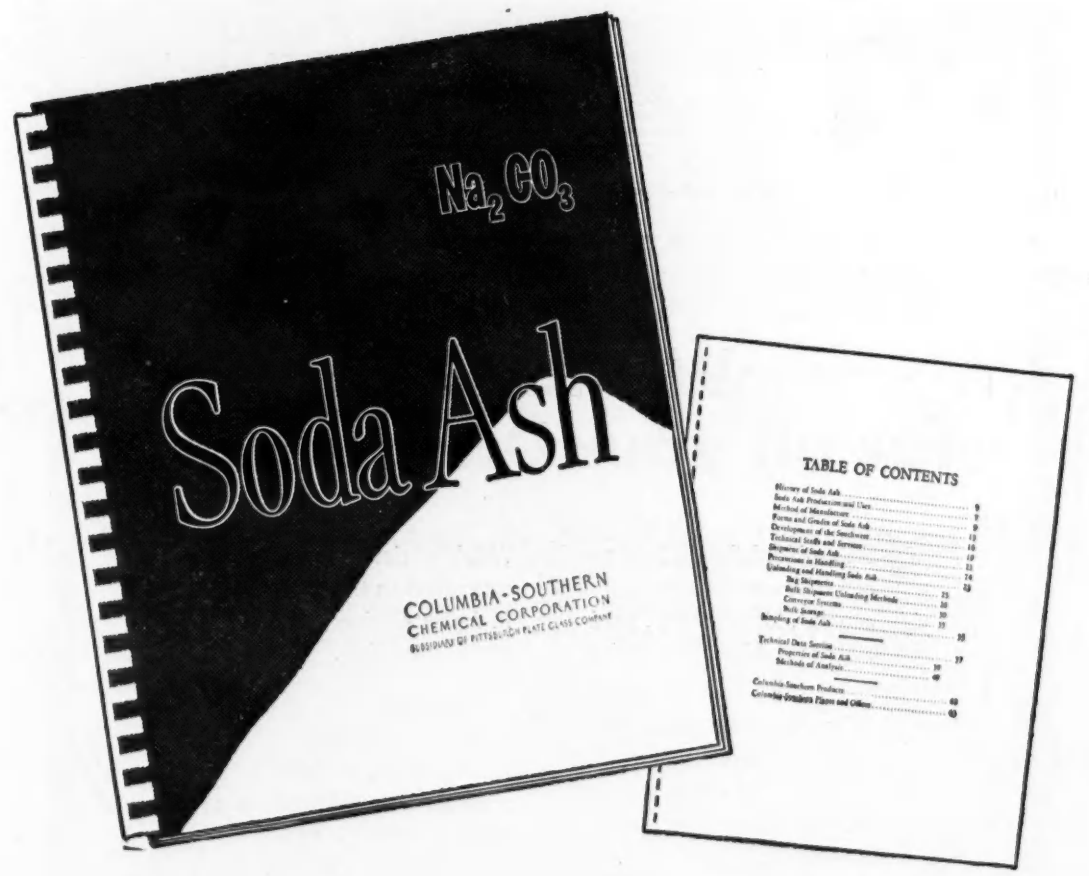
Kaolin (see also Clay, China), NF, powd., fib. dms. lb. .10 - .12
colloidal, fib., dms. lb. .15½- .17½
Kola nuts, bgs lb. .15 - —

L

Lactose, crude, bgs., c.l., works lb. .15 - —
edible, fib. dms., 30,000-lb. lots, works lb. .22 - —
2,000-lb. lots, works lb. .22¾- —
200-1,800-lb. lots, works lb. .23¼- —
Edible lactose in bgs. 1c. lower.
fermentation grade, bgs., c.l., works lb. .08½- —
USP, fib. dms., 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾- —
200-1,800-lb. lots, works lb. .25¼- —
USP lactose in bgs. 1c. lower.
Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .28 - .30
USP, anhyd., dms., works lb. .26 - .28
hydrous, dms., works lb. .25 - .27
Lard, cash, dms., Chicago lb. .1080- —
Larkspur seed, bgs lb. .20 - .23
Laurel leaves, Greek, bls lb. .11½- —
Portuguese, bls lb. .11 - —
Turkish, bls lb. .26 - —
n-Lauryl methacrylate, dms., c.l. or t.l., works lb. .65½- —
Lavender flowers, medium, bls lb. .55 - .60
ord., bls lb. .16 - .20
select., bls lb. .90 - —
Lead acetate, white, cryst., bbls lb. .22 - —
gran., bbls lb. .23 - —
powd., bbls lb. .23 - —
NF, cryst., gran., powd lb. .31 - .32
Arsenate, acid powder, dealers, 3-lb. bgs, or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
t.c.l., frt. alld lb. .28½- —
1-lb. bgs., c.l. lb. .41½- —
t.c.l. lb. .42½- —

Hexamethylenetetramine—Lignosulfonate, 70% Tannin

Lead, blue, basic, sulfate, bbls., c.l., shipt. point, frt. alld lb. .15¾- —
t.c.l., same basis lb. .16¾- —
Carbonate (see Lead, white, basic carbonate).
Chloride, dms. lb. .45 - —
Iodide, NF, V jars lb. 3.82 - —
Linoleate, fused, 26@% Pb, dms. lb. .33 - —
Metal, pigs, prime, N. Y lb. .15 - —
St. Louis lb. .1480- —
Metallic paste, dms., 20,000-40,000-lb. lots, works lb. .33¾- —
10,000-20,000-lb. lots, same basis lb. .34¾- —
200-2,000-lb. lots, same basis. lb. .35¾- —
Prices ex wnse. Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l., works, frt. equald lb. .1580- —
t.c.l. same basis lb. .1630- —
Naphthenate, liq., 16% Pb, dms., dlvd lb. .17 - —
24% Pb., dms., dlvd lb. .21 - —
solid, 37% Pb., dms., dlvd lb. .27½- —
Nitrate, bbls lb. .22¼- —
Orthosilicate-silica gel, 50-60% PbO, dms., works lb. .29¾- .34¼
Peroxide, tech., powd., bbls lb. .38¾- .40¼
Phthalate, dibasic, dms., works lb. .41 - —
Red, 95%, Pb_3O_4, or less, bbls., c.l., works, frt. alld lb. .17½- —
t.c.l., same basis lb. .18 - —
97% Pb_3O_4, bbls., c.l., same basis lb. .17¾- —
t.c.l., same basis lb. .18¼- —
Lead, red, 98% Pb_3O_4, bbls., c.l., same basis lb. .18 - —
t.c.l., same basis lb. .18½- —
Resinate, precip., 23% Pb, dms., dlvd lb. .32½- —
Salicylate, normal, dms., works lb. .46 - —
Silicate (see Lead, white, basic, silicate).
Sulfate (see Lead, blue, basic sulfate Lead white, basic sulfate)
Tallate, liquid, 16% Pb., dms lb. .15 - —
24% Pb., dms lb. .18½- —
solid, 30% lb. .23¼- —
White, basic carbonate, bgs., c.l., shipt. point, frt. alld lb. .17½- —
t.c.l., same basis lb. .18½- —
silicate, bgs., c.l., shipt. point, frt. alld lb. .16 - .19¼
t.c.l., same basis lb. .17 - .20¼
sulfate, bgs., c.l., shipt. point, frt. alld lb. .15¾- —
t.c.l., same basis lb. .16¾- —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works lb. .15 - .17
t.c.l., same basis lb. .15½- .17½
unbleached, non-ret. dms., c.l., same basis lb. .13 - .15
t.c.l., same basis lb. .14½- .16½
dl-Leucine, dms., works lb. 12.25 -15.00
Licorice root, whole, bbls lb. .10 - .12
gran., bbls lb. .15 - .17
powd., bbls lb. .12 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½- —
t.c.l., works lb. .06¾- —



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Lignosulfonate, 70% Tannin—Methoxychlor

Lignosulfonate 70% tannin, c.l., metropolitan, N. Y. destination, freight equalized with nearest producing point ton 18.71 - —
Lime, chemical (quicklime), bulk, Hydrated bulk, c.l., same basis. ton 20.21 - —
Spray, bulk, c.l., same basis ton 23.21 - —
Lime salts (see Calcium).
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works ton 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb 6.40 - 7.65
ex lignaloe wood oil, dms lb 5.30 - 7.10
Linalyl acetate, ex bois de rose, 90-92% dms lb 6.15 - 7.95
96-98% dms lb 6.75 - 7.15
ex petitgrain, bots. lb 5.95 - 6.70
Lindane 25% formulation, dealers, dms., works lb 1.58 - —
99% tech. dealers, dms., dlvd., lb 3.10 - —
Linden flowers with leaves, bls lb .30 - —
without leaves, bls lb .35 - —
Linseed meal, expeller 32-34% bulk, Midwest, mills ton 59.00 -60.00
extracted 36% bulk same basis, ton 56.00 -56.50
Litharge, coml., powd. bbls., c.l., works, frt. equald lb .16½ - —
l.c.l., same basis lb .17 - —
Lithium benzoate, dms lb 1.65 1.67
Bromide, NF, dms., works, frt. equald lb 2.16 - —
Lithium carbonate, NF, dms., c.l., t.l., dlvd lb 1.29½ - —
ton lots to t.l., dlvd lb 1.30 - —
tech., dms., c.l., t.l., dlvd., frt. alld., works lb .85 - 1.12½
l.c.l., same basis lb .90 - 1.13½
Chloride, CP, anhyd., ton lots lb 1.28½ - —
tech., cryst., dms., c.l., t.l., dlvd.,
tech., cryst., dms., c.l., t.l., dlvd. or works, frt. alld lb 1.05 - 1.10½
l.c.l., same basis lb 1.10 - 1.25
Citrate, NF, dme lb 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd lb 2.17½ - —
ton lots, dlvd lb 2.18½ - —
less ton lots, dlvd lb 2.23½ - —
Hydride, powd., dms., works lb 14.00 - —
Hydroxide, monohydrate, dms., c.l., t.l., dlvd, or works, frt. alld lb .90 - .90½
l.c.l., same basis lb .91½ - .96
Manganite, dms., works lb .95 - 1.15
Nitrate, tech., dms., 100-lb. lots, lb 1.25 - —
Salicylate, dms lb 1.60 - 1.70
Silicate, dms., works lb 1.10 - 1.30
Sulfate, dms., c.l., works lb .47½ - —
ton lots, works lb .48½ - —
less-ton lots, works lb .53½ - —
Sulfate, dms., 100-lb. lots lb 1.05 - 1.45
Titanate dms., works lb 1.15 1.35
Lithopone, ord., bgs., c.l., dlvd lb .07½ - —
l.c.l., dlvd. lb .08¼ - .08½
titanated (high-strength), bgs., c.l., dlvd lb .10 - —
l.c.l., dlvd lb .11 - —

Lithopone prices, Pacific Coast, 1c. per lb. higher.

Lobelia herb, bls lb .75 - —
Lobeline sulfate, bots., works oz .37.50 -39.00
Logwood extract, cryst., No. 1, bbls., l.c.l lb .41 - —
No. 2, bbls. l.c.l lb .39 - —
liq., No. 1, bbls., l.c.l lb .20 - —
No. 2, bbls. l.c.l lb .19 - —
No. 3, bbls. l.c.l lb .18½ - —
solid, No. 1, boxes, l.c.l lb .35 - —
Lycopodium, cs. lb 2.00 - 2.25
dl-Lysine hydrochloride, bots., kg 140.00 -150.00

M

Mace, Siauw, siftings, bls lb 1.45 - 1.70
West Indian, No. 1, bls. shipment lb 1.55 - —
Magnesia, calcined, tech., bgs., ctns., works lb .25¼ - 26
syn. rubber grade, light, bgs., c.l., works lb .29¼ - —
l.c.l., works lb .30 - —
extra light, works lb .29¼ - .30
USP, light, ctns lb .35 - .36
heavy, bbls lb .45 - .52
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt equald ton 82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash ton 38.00 - —
Magnesium bromide, jars lb .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb .10½ - —
l.c.l., frt. equald lb .12 - .13
truckloads, frt. equald lb .11 - —
USP, bgs., c.l., frt. equald lb .12½ - —
t.l., frt. equald lb .13 - —
l.c.l., frt. equald lb .14 - .15

Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.

Magnesium chloride, anhyd., 92% flake or pebble, dms., c.l., works lb .12¾ - —
l.c.l., same basis lb .14 - .15
hydrous, 99% flake, bgs., c.l., works ton 50.00 - —
l.c.l., works ton 55.00 -105.00
Gluconate, dms., cns lb 1.30 - 1.37
Hydroxide, NF, medicinal, bbls., dms., kgs lb .26½ - .30
Metal, 99.8% ingots, cs., works lb .28½ - .297
sticks, cs., works, frt. alld. on carlots lb .49 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb .09 - .10
Sulfate, tech., bgs., c.l., works, 100 lbs. 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 with-drawal 100 lbs. 3.10 - —
smaller lots 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb .38 - —
1,000-lb lots lb .40 - —
100-lb lots lb .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Malathion, dms., c.l., works lb .94 - —
l.c.l., works lb .96 - .98
Maleic anhydride, dms., c.l., dlvd. E lb .27 - —
l.c.l., dlvd E lb .28 - —
tanks, dlvd E lb .26 - —

Prices on maleic anhydride W. of Rockies, 1½c. higher.

Mandrake root, bls lb .38 - —
Manganese acetate, bbls., dlvd lb .35 - —
Arsenate, bgs lb .16 - —
Borate, tech., fib. dms lb .25 - —
Carbonate, bbls., works lb .22 - —
Chloride, anhyd., dms., works lb .25½ - —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works ton 91.50 - —
paper bgs., works ton 88.00 - —
dms., works ton 94.00 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.

Gluconate, dms. lb .. 1.79 - 1.93
Hydrate, bbls., dlvd lb .36 - —
Hypophosphite, NF, dms lb 3.52 - —
Linoleate, liq., 4.35% Mn., dms. lb .32½ - —
solid, precip., 8.2% Mn. bbls lb .37½ - —
Naphthenate, liq., 6% Mn., dms., frt. alld lb .27 - —
Resinate, fused, 3½% Mn. dms. lb .24 - —
precip., 6½-7% Mn, dms lb .28 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E ton 80.50 - —
l.c.l., dlvd. S. E ton 87.50 - —
Tallate, 6% dms lb .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton 71.00 - —
So. American 30% tannin, c.l., tannin, c.l., ex dock ton 71.00 - —
Mannitol, coml., fib. dms., c.l., works lb .60 - —
single dm., works lb .65 - —
ton-lots, works lb .62 - —
MBT (see 2-Mercaptobenzothiazole).
MBTS (see Mercaptobenzothiazyl disulfide).
Melamine, bgs., ton lots, works lb .33 - —
500 to 2,000-lb. lots, works lb .33½ - —
smaller lots, works lb .38½ - —
Menadione, USP, bots. gram .044 - .05
Menthol, nat., USP, Brazilian, cs lb 9.00 - —
syn., USP, racemic, cns lb 5.45 - —
Menthyl salicylate, tins lb 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms. ton lots works frt. alld lb .40 - —
less ton lots, same basis lb .42 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb .50 - —
less ton lots, same basis lb .52 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb 4.98 - —
gran or powd., dms., 50-lb lots or more lb 4.78 - —
Cyanide, NF VIII, powd., fib. dms. lb 6.84 - —
Iodide, red, NF, fib. dms lb 7.72 - —
Oxide, red, NF, powd., fib. dms. lb 5.90 - 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb 7.72 - —
Mercury, ammoniated (see White precipitate, USP)
Metal, 76 lb. per flask ... net-flask 254.00 -258.00
Mesityl oxide, dms., c.l., dlvd lb .1350 - —
l.c.l., dlvd. lb .1450 - —
tanks, dlvd. lb .1150 - —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal .70 - —

Prices on natural methanol W. of Miss., 3c. higher.

syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal .45 - —
l.c.l., same basis gal .51 - —
tankwagon, 2,000-4,000-gal. lots, dlvd. Metropolitan areas, gal .33 - —
tanks, 4,000 gal., man., frt. alld. or dlvd gal .30 - —
4,000 gal., min., works, Carteret, Camden, N. J gal .27½ - —
Zone 2, dms., c.l., or truckload min., frt. alld. or dlvd gal .48 - —
l.c.l., same basis gal .54 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd. Metropolitan areas gal .36 - —
tanks, 4,000 gal. man., frt. alld. or dlvd gal .33 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetretramine).
dl-Methionine, fib. dms., frt. alld. 50-lb. or more lb 3.50 - —
feed grade, 98%, fib. dms., same basis lb 2.65 - —
Methoxychlor, 50% wettable powder, dealers, dms. cs. frt. alld lb .61 - .64

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Witco Naphthenic Driers carefully controlled metal content, low viscosity, good storage stability and clarity.

Witall® Driers equivalent to the naphthenates in drying efficiency, yet more economical.

Witco Octoic Acid Driers light in color, free from residual odors, more efficient in some alkyds than naphthenic types.

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Sunray, Texas: Carbon Black • **Westlake, Louisiana:** Oil Black
Lawrenceville, Illinois: Asphalt • **Perth Amboy, New Jersey:** Asphalt
Brooklyn, New York: Stearates, Vinyl Stabilizers • **Eunice, New Mexico:** Carbon Black
Chicago, Illinois: Stearates, Esters, Driers, Surface Active Agents, Vinyl Stabilizers, Plasticizers, Mastics, Organic Chemicals
Witco, Texas: Carbon Black, Hydrocarbons • **Ponca City, Oklahoma:** Oil Blacks
Los Angeles, California: Esters, Driers • **Droitwich, England:** Rubber Latex

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35 Years of Growth

Methyl abietate, non-ret. dms., e.l., dlvd. zone 1 lb. .20¼ - —
t.c.l., same basis lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd. Zone 1 lb. .21 - —
t.c.l., same basis lb. 21¼ - —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss, Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., t.c.l., E. of Miss., frt. alld. gal. .62½ - —
syn., dms., c.l., frt. alld. E. gal. .57 - —
t.c.l., frt. alld. E. gal. .63 - —
tanks, frt. alld. E. gal. .45 - —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.

Acrylate, dms., c.l., t.l., dlvd. lb. .43½ - —
t.t.l., dlvd. lb. .44½ - —
tanks, dlvd lb. .41¾ - —

Alcohol (see Methanol).

Amyl acetate, dms., c.l., dlvd.. E lb. .15 - —
t.c.l., dlvd. E lb. .16 - —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns. lb. 2.50 - 2.65
Benzoate, cns., dms lb. .53 - .65
Bromide, jobbers, cyls., various sizes, frt. alld. E lb. .47 - .61
Cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works. lb. .78 - —
2,000-lb. lots and more, same basis lb. .65 - —
smaller lots, frt. alld. on 100 lbs lb. .89 - 1.00
standard vis., 15,400 cps.), 50-lb., bgs., c.l., frt. alld. lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs lb. .73 - .85
Chloride, indust., cyls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis. lb. .15 - —
single unit, same basis lb. .11½ - —
refrigerator mfrs., cyls., dlvd. lb. .45 - —
other consumers or service men, cyls., dlvd. lb. .62 - —
Cinnamate, cns. lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works. lb. .35½ - —
t.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. lb. .13 - —
t.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
Formate, refd., dms. lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .10 - —
Heptin carbonate, bots lb. 33.00 - 42.00
p-Hydroxybenzoate, fib. dms lb. 1.90 - 2.00
Ionone, standard, cns., dms lb. 5.30 - —
Isobutyl carbinol, dms., c.l., dlvd. lb. .15 - —
t.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
Ketone, dms., c.l., dlvd lb. .15 - —
t.c.l., dlvd. lb. .16 - —
tanks, dlvd. lb. .13 - —
Methacrylate, dms., c.l., t.l., frt. equald with Belle, W. Va. lb. .36½ - —
smaller lots, same basis lb. .37 - —
tanks, same basis lb. .35 - —
Naphthyl ketone, cryst., cns lb. 3.60 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate)
Roseaniline, chloride, NF fib. dms., 5-lb. lots lb. 5.64 - —
Salicylate, USP, cns., 500-lb. lots lb. .53 - —
Testosterone, USP, 100-gram bots. gram .63 - —
2-Methylbenzylamine, dms., t.c.l., works lb. 1.25 - —
2-Methyl-5-ethyl pyridine dms., c.a., works lb. .47½ - —
t.c.l., works lb. .48 - —
tanks, works lb. .46 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - 3.60
smaller lots same basis lb. 3.40 - 3.60
Chloride, tech., dms., c.l., dlvd. E lb. .13½ - —
t.c.l., same basis lb. .14½ - —
tanks, same basis lb. .12½ - —
b-Methylnaphthalene, 32°C. m.p., dms., works lb. .90 - —
Methylparaben (see Methyl p-hydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04¼ - —
roofing, 20 to 80 mesh, works lb. .03 - .04
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06¼ - —
t.c.l., ex-whse. or frt. alld. E lb. .07 - —
paint or lacq., bgs., c.l., works, frt. alld lb. .07¾ - —
t.c.l., ex-whse. or frt. alld. E lb. .08½ - —
rubber, bgs. c.l. works, frt. alld. E lb. .07½ - —
t.c.l., ex-whse. or frt. allo. E lb. .08½ - —
wallpaper, bgs., c.l., works, frt. alld., E lb. .07¾ - —
t.c.l., ex-whse. or frt. allo. E lb. .08¼ - —
white, extra, fine, bgs., c.l., works, frt. allo. E lb. .07¾ - —
t.c.l. ex-wnse or frt. allo. E lb. .08½ - —

Mica, wet-grd. W. of Miss R. ½c. higher. W of Rockies, 1c. higher.

Milk powder non-fat, roller, bgs., c.l. lb. .12 - .1535
spray, bgs., c.l. lb. .14 - .1610
whole, roller, bgs. c.l. lb. No prices.
spray, bgs. c.l lb. .27 - .31
Sugar (see Lactose).
Mineral spirits (see Petroleum mineral spirits)
Molasses, blackstrap feed grade, tanks, New Orleans gal. .10 - .10½
New York gal. .12 - —
Molybdenum (metal), powd., 80 or 200 mesh ctns., works kilo. 8.80 - —
Trioxide, pure, kgs., works lb. 1.05 - —
tech., kgs., works, basis Mo. content lb. 1.25 - —
Monobutylamine, dms. c.l., E. of Rockies lb. .53 - —
t.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Monochlorobenzene dms. c.l. frt. allo. or dlvd. E lb. .10 - —
t.c.l., same basis lb. .11 - —
tanks, same basis lb. .08½ - —
Monoethanolamine dms., c.l. dlvd. E lb. .27 - —
t.c.l., same basis lb. .28 - —
tanks, same basis lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd E lb. .33 - —
t.c.l., dlvd. E lb. .34 - —
tanks, dlvd. E lb. .31 - —
40% soln., dms., c.l., frt. equald. 100% basis lb. .37 - —
t.c.l., frt. equald, 100% basis. lb. .37½ - —
tanks, frt. equald., 100% basis. lb. .31 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylortnotoluidm (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd. E lb. .27 - —
t.c.l., same basis lb. .28 - —
tanks, same basis lb. .25 - —
Monoisopropylamine, dms., c.l., dlvd. lb. .32 - —
t.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald., 100% basis. lb. .40 - —
t.c.l., frt. equald, 100% basis. lb. .40½ - —
tanks, frt. equald, 100% basis. lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Morphine, cns. oz. 12.40 - 12.60
Acetate, anhyd., cns. oz. 9.95 - 10.00
Hydrobromide, cns oz. 9.90 - 9.95
Hydrochloride, NF, cns oz. 9.90 - 9.95
Sulfate, USP, cns oz. 9.90 - 10.05
Morpholine dms., c.l., dlvd. E lb. .54¾ - —
t.c.l., dlvd. E lb. .55¾ - —
tanks, dlvd. E lb. .52¾ - —
Musk, syn., ambrette, 100-lb. lots, fib. dms. lb. 5.15 - —
25-lb. lots, cns lb. 5.20 - —
5-lb. lots, cns lb. 5.30 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb lots, cns lb. 5.35 - —
5-lb. lots, cns lb. 5.45 - —
xylol, 100-lb. lots, fib. dms lb. 1.40 - —
25-lb. lots, cns lb. 1.45 - —
5-lb. lots, cns lb. 1.50 - —
Mustard seed, Danish, yellow, bgs lb. .12 - .12½
Dutch, yellow, bgs lb. No prices.
English, yellow, bgs lb. .13 - —
Montana, oriental, bgs. lb. No prices.
yellow, bgs lb. No prices.
Myrobalans, J-1, assorted, bgs., ex dock ton. 60.00 - —
crushed, bgs., ex dock lb. 82.00 - —
Bombay, bgs., ex dock ton. 56.00 - —
extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty lb. No prices.

N

Naphtha, painters (see Petroleum naphtha V M & P.).
Solvent (see S).
Naphthalene crude, dom., 74° tanks, frt. equald lb. .06¼ - —
78° bgs., c.l., game basis lb. .03¾ - .07½
t.c.l., same basis lb. .07 - .07¾
tanks, same basis lb. .06¼ - .07
imp., 78°, large lots lb. .06¾ Nom.
refd., dms., indust., chipped or crushed, bgs., frt. equald. lb. .11½ - .12½
flake, bgs., same basis lb. .12½ - .13½
tanks, same basis lb. .10¾ - .11¾
Naphthalene, refd., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis lb. .13¾ - —
cs., 50 lbs., c.l., same basis lb. .14 - —
1-lb pkgs - same basis lb. .16¼ - —
a-Naphthol, bbls. frt allo lb 1.00 - —
b-Naphthol, tech. bbls., c.l., works. lb. .34½ - —
t.c.l., works lb. .36½ - —
Benzoate, fib. dms., works lb 3.00 - —
custom contract, works lb 1.65 - —
Salicylate, dms lb 5.00 - —
Sulfate, cns lb 35.00 - —
a-Naphthylamine bbls. frt allo lb .50 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 - —
Neocinchophen USP dms. frt adjusted lb 7.00 8.00
Neomycin, fib dms. 100-kilo lots, basis activity gram .60 - —
1-kilo lots basis activity gram 1.20 - —
Nerolin cns lb 2.45 2.65
Niacin (see Acid, nicotinic)
Niacinamide (see Nicotinamide).
Nickel acetate, bbls. dlvd lb. 77 - .90½
Carbonate bbls. dlvd lb. 73¾ - 81¾
Chloride, bbls., dlvd lb. 38½ - .46½
Formate, bbls., ton lots, frt. allo, lb. .68 - .69
Metal, electro cathodes, cs., works, lb. .64½ - —
Nitrate, bbls., works lb. .37 - .38
Oxide, black, bbls lb. .76 - —
green bbls lb. .76 - —
Sulfate, bgs., c.l., dlvd lb. .30¼ - —
t.c.l., dlvd lb. .31¼ - .38¼

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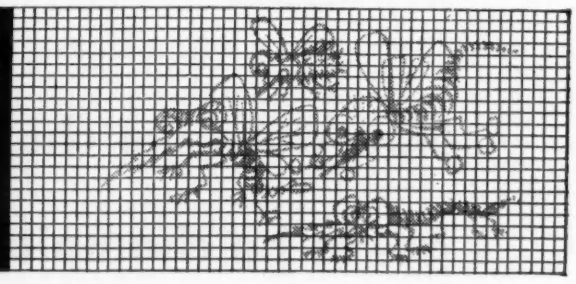

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Nicotinamide—Oil, Lime

Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 - 12.30
Hydrochloride, dms., frt. adjusted, kilo. 11.50 - 11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld lb. 1.03 - —
Niger seed, bgs. lb. .10½- .11
Nikethamide, cbys lb. 5.00 - —
m-Nitroaniline, dms., frt. alld lb. 1.05 - —
o-Nitroaniline, flaked, dms lb. .54 - .57
powd., dms lb. .60 - —
p-Nitroaniline, dms., l.c.l., frt. alld. lb. .51½- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .12 - —
l.c.l., frt. alld lb. .13 - —
tanks, frt. alld lb. .11 - —
o-Nitrobiphenyl, tech., dms., c.l., works lb. .14½- —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
l.c.l., same basis lb. .35 - .37
18-25 cps., bbls., c.l., same basis lb. .36 - —
l.c.l., same basis lb. .37 - .39
250-400, 600-1,000 secs., bbls., c.l., same basis lb. .39 - —
l.c.l., same basis lb. .40 - .42
spirit-soluble, 30-35 cps., ¼, ½, secs., bbls., c.l., same basis lb. .41 - —
l.c.l., same basis lb. .42 - .44
Nitrocellulose, spirit soluble, 5-6 cps., 40-60 secs., bbls., c.l., same basis lb. .40 - —
l.c.l., same basis lb. .41 - .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

o-Nitrochlorobenzene, dms., c.l. lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18 - —
p-Nitrochlorobenzene, dms lb. .26 - .27
2-Nitro-4-chlorophenol, dms lb. .75 - —
Nitroethane, dms., dlvd. E of Rockies lb. .25 - —
Nitrogen solution, 37%N, tanks, frt. equald., per ton of product basis ton. 46.50 - —
40.8%N, tanks, same basis ton. 51.15 - —
Nitrogenous process tankage, bulk, works unit-ton. 4.10 - 5.10
Sewage sludge, bulk, works unit-ton. 2.75 + .50
Nitromethane, dms., l.c.l., dlvd E. of Rockies lb. .25 - —
a-Nitronaphthalene, bbls, frt. alld. lb. .41 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¼- —
2, dms., dlvd. E. of Rockies lb. .25 - —
tanks, works lb. .22¼- —
o-Nitrophenol, dms., works, frt. equald lb. .54 - —
p-Nitrophenol, dms., works, frt. equald lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld. lb. .10 - —
l.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
p-Nitrotoluene, dms., works lb. .33 - .36
m-Nitro-p-toluidine, dms lb. 1.59 - —
Nitrous ether, conc., bots., 100-lb. lots lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 - —
l.c.l., frt. alld lb. .27 - —
tanks, frt. alld lb. .24 - —
Nutgalls, Aleppo, bgs lb. .36 - .38
Chinese, bgs. lb. No prices.
Nutmeg, East Indian, bgs lb. .41 - .42
West Indian, bgs lb. .37 - —
Nux vomica, bls lb. .10 - .12
powd., bbls., bxs lb. .15 - .17

O

Octane, indust., tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex gal. .15¾- —
Borger, Tex gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd., lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks dlvd lb. .32½- —
Octyl phenol, bgs., c.l., works lb. .23¼- —
l.c.l., works lb. .23¾- —
tanks, works lb. .22½- —

Drum prices for octyl phenol are 1c. higher.

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies, siberica, cns lb. 3.00 - 3.50
Almond, artif., bitter (see Benzaldehyde), nat., bitter, F.P.A., bots lb. 3.00 - 3.75
NF, bots. lb. 3.25 - 3.75
sweet, USP, dms., cns. lb. .62 - .80
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.40 - 1.95
Oil, angelica root, bots lb. 66.00 - 100.00
seed, bots lb. 56.00 - 95.00
Aniline (see A).
Anise, USP, dms lb. 3.25 - 4.00
Apricot, kernel, USP, dms. lb. .38 - .45
Avocado, cns. lb. 3.25 - —
Babassu, crude, tanks lb. .15¼- —
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.85 - 2.20
55-60%, cns. lb. 2.10 - 2.50
West Indian, 50-55%, cns., dms., lb. 1.85 - 2.40
Bergamot, nat., NF, Italian, cns. lb. 8.50 - 11.00
Birchtar, crude, cns lb. 1.50 - 1.90
rectified, NF, cns lb. 1.75 - —
Bois de rose, Brazil, dms lb. 4.70 - 5.60
Mexican (see Oil, lignaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, native, cns lb. 1.75 - 2.10
redist., USP, cns lb. 2.25 - 3.00
Calamus, bots lb. 12.00 - 20.00
Camphor, sassafrassy, dms lb. .40 - .60
white, dms. lb. .28 - .50
Cananga, native, cns lb. 7.85 - 10.25
rectified, cns. lb. 12.00 - 14.75
Caraway, NF, cns lb. 3.75 - 5.00
Capsicum (see Capsicum oleoresin)
Cardamom, NF, bots. lb. 32.00 - 50.00
Cassia, USP (see Oil, cinnamon, USP)
Castor blown, dms., c.l. lb. .1950- —
l.c.l. lb. .2000- —
dehydrated, bodied, dms., c.l lb. .2160- —
l.c.l. lb. .2210- —
tanks lb. No prices.
unbodied, dms., c.l. lb. .2010- —
l.c.l. lb. .2060- —
tanks lb. No prices.
hydrogenated, bgs., c.l., dlvd lb. .20½- —
l.c.l., dlvd lb. .24 - —
No. 3, tech., dms., c.l. lb. .1475- —
l.c.l. lb. .1525- —
tanks lb. No prices.
No. 1, Brazilian, tanks lb. .13¾- —
Castor, sulfonated, 50%, dms., l.c.l lb. .11½- .12
75%, dms., l.c.l. lb. .14½- .15
USP, dms., c.l. lb. .1700- —
l.c.l. lb. .1750- —
tanks lb. No prices.
refd. and deodorized, dms., c.l lb. .1850- —
l.c.l. lb. .1900- —
tanks lb. No prices.
Cedarleaf, USP XII, cns., dms lb. 2.90 - 3.50
Cedarwood, cns., dms lb. .70 - 1.00
Celery seed, bots lb. 12.50 - 20.00
Chamomile, blue, Hungarian, bots. lb. 90.00 - 180.00
Chenopodium, NF, cns lb. 4.00 - 5.00
Camawood (see Oil, tung).
Cinnamon bark, bots lb. 25.00 - 65.00
leaf, crude, dms lb. 1.30 - 2.00
USP cns. dms., (Cassia) lb. No stocks.
Citronella, Ceylon, cns., dms lb. 1.05 - 1.70
Java, true, dms lb. 1.75 - 2.00
Java-type, cns lb. 1.80 - 2.50
Clove, bud, USP, cns., dms. lb. 2.85 - 4.00
leaf, crude, dms lb. 1.30 - 2.00
Coconut, crude, tanks, N. Y. lb. .11⅞- —
Pac. Coast lb. .10⅞- —
refd., Cochin type, tax incl. ret. dms., l.c.l. lb. .19½- —
deodorized, tax incl., non-ret. dms., c.l. lb. .21½- —
Cod, Newfoundland, dms lb. .11 - —
Codliver, USP, dms gal. 1.50 - 1.60
Copaiba, cns lb. 1.80 - 2.50
Coriander, USP, bots lb. 11.75 - 17.50
Corn, crude, tanks, works lb. .13 - —
foots (soapstock), acid 95%, tanks, N. Y. lb. .04¾- —
refd., salad, dms lb. .18 - .18½
tanks lb. .16½- —
Costus, bots lb. 8.00 - —
Cottonseed, crude, tanks, South East lb. .13 Nom.
Valley lb. .12¾- .12⅞
Texas lb. .12¾- .12⅞
foots (soapstock), acid 95%, tanks, N. Y. lb. .04¾- —
raw, 50%, tanks, N. Y. lb. .02 Nom.
refd., salad, dms lb. .18 - .18½
tanks lb. .16½- —
Creosote (see Creosote, coaltar).
Crude (see Petroleum, crude).
Cubeb, cns. lb. 4.25 - 6.25
Cumin, bots., cns lb. 4.15 - 5.75
Cypress, bots lb. 5.30 - —
Degras (see D).
Dillseed, bots. lb. 2.80 - 4.25
Dillweed, dom., bots., dms lb. 3.50 - 5.00
Dip (see D)
Erigeron, cns. lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms lb. .70 - 1.00
80-90%, dms. lb. .85 - 1.25
Fennel, sweet, USP, cns. lb. 2.30 - 3.25
Fir, Canada, cns lb. 2.25 - 3.00
Fish, refd., alkali, dms lb. .1300- .1350
kettle-bodied, dms lb. .1530- .1580
light-pressed, dms lb. .1150- .1200
tanks lb. .1000- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
55,000 A units per gram, dms, 1,000,000 units. .10½- .11
100,000 A units per gram., dms. 1,000,000 units. .12 - .14
200,000 A units per gram., dms. 1,000,000 units. .12 - .14
300,000 A units per gram., dms., 1,000,000 units. .12 - .14½
400,000 A units per gram, dms., 1,000,000 units. .12 - .14½
500,000 A units per gram., dms. 1,000,000 units. .12 - .14½

Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots oz. 5.75 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb. 11.50 - 14.00
Bourbon, cns. lb. 11.75 - 14.50
Turkish (see Oil palmarosa)
Ginger, dist., bots. lb. 15.50 - 20.00
Grapefruit, dms. lb. 2.00 - 3.25
Grease, No. 1, dms lb. .14¾- .16½
extra, winter, strained, dms lb. .17¼- .19
prime, burning, dms lb. .18¾- .20½
Guaiacwood, cns lb. 1.40 - 1.90
Hemlock, cns. lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns. lb. .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms., cns. lb. 9.75 - 12.50
Lavandin, dms., cns lb. 2.85 - 3.55
Lavender, Flower, USP, French, 30-32% ester, cns. lb. 2.85 - 4.60
38-40% ester, cns lb. 9.50 - 13.20
40-42% ester, cns lb. 10.00 - 16.50
Spike, Spanish, cns lb. 1.85 - 2.30
Lemon, USP, Calif., cns., dms lb. 4.50 - 5.50
Messina, cns. lb. 4.85 - 9.80
terpeneless, bots lb. 32.00 - 85.00
Lemongrass, cns., dms lb. 1.75 - 2.50
Lignaloe wood, Mex., cns lb. 2.70 - 4.60
Lime, dist., Mexican, cns. lb. 3.00 - 4.75
West Indian, cs. lb. 3.00 - 4.75
expressed, West Indian, cns lb. 7.00 - 8.00
terpeneless, bots lb. 29.50 - 100.00

How does the champion get to be champion?

By being better! Unmatched through the years is the *California flavor* that distinguishes Exchange Brand Oil of Lemon. That's why Exchange remains the overwhelming sales leader—in fact, the *4-to-1 favorite* over all other lemon oils combined!

So why skimp on quality...insist on Exchange quality and flavor that come *only* from genuine California lemons, grown and skillfully processed by Sunkist Growers.

Sunkist Growers
PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA
Produced by Exchange Lemon Products Co. • Corona, California
Distributed in the U.S. exclusively by
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N.Y.
DODGE & OLCOTT, INC.
180 Varick St., New York 14, N.Y.

Exchange ®
OIL OF LEMON U. S. P.

Oil, linseed, raw, dms., c.l., N. Y. lb. .1605- —
tanks, f.o.b. Minneapolis lb. .1330- —
New York lb. .1455- —
tankwagon, New York lb. .1485- —
Boiled linseed oil. (06c. per lb higher
Mace, dist., cns., dms. lb. 2.75 - 3.60
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Atlantic Coast lb. .07½- —
Gulf ports, f.a.s. lb. .07¾- —
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. .18 - —
syn., bots lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms lb. .33 - .34
20° cold test, dms lb. .32 - .33
30° cold test, dms lb. .30 - .31
Neroli, NF, French, bots lb.85.00 -310.00
Spanish, bots. lb.32.50 -85.00
Nutmeg, USP, dist., East Indian, cns., dms lb. 3.10 - 4.50
West Indian, cns., dms lb. 3.00 - 3.60
Ocotea cymbarum, dms. lb. .87 - 1.50
Otticica, liq., dms lb. .15¼- .15¾
tanks lb. .14 - .14½
Oleo, extra, dms. lb. .14¾- .15
Olibanum, bots lb. 5.50 7.65
extra fine, bots lb. 8.00 —
Olive, edible, spanish, dms., duty paid gal. 2.30 - 2.440
Tunisian, same basis gal. 2.20 - 2.25
Orange, sweet, dist., cns lb. .50 80
expressed USP Brazilian, cns., dms lb. No stocks.
Calif., cns., dms. lb. .55 - 1.25
Florida, cns., dms. lb. .50 - 1.25
Messina, cns. lb. 3.85 - 5.85
West Indian, cns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots lb.65.00 -120.00
Origanum, Spanish, cns lb. 1.75 2.25
Palm, clarit., dms lb. .13 - .15½
kernel, denat., tanks lb. .11⅞- —
Palmarosa, cns. lb. 6.00 9.50
Paraffin, pale, 100-110 vis., at 100 F. tanks, East Coast refy gal. .14 - —
Patchouli, dms lb. 6.00 - 9.50
Peach kernel, USP (see Oil apricot kernel)
Peanut, crude, tanks, f.o.b. mills. lb. .17¾ Nom.
refd., dms. lb. .23¼- .23½
tanks lb. .21¼- —
Pennyroyal, USP imported, cns lb. 2.50 - 3.50
Peppermint, nat., dms. lb. 7.15 - 8.65
redist., USP, dms. lb. 7.45 - 9.25
Persic, USP (see Oil, apricot kernel).
Petitgrain South American, cns., dms lb. 3.50 - 4.80
Pimento, berry, NF, dms lb. 4.20 - 8.00
leaf, cns. lb. 2.60 - 3.10
Pine, dest.-dist., dms., t.c.l., works. lb. .11¼- —
ex-whse. lb. .1325- —
steam dist., dms. ex whse., N.Y.C lb. .163 —
Pineneedle Siberian (see Oil, abies siberica).
Rapeseed, tankcars lb. .16 - —
Red (see Acid, oleic)
Rice, bran, clarif., dms., l.c.l. lb. .18 - —
tanks, divd. E lb. .14 - —
Rose, nat., Bulgarian, bots oz.43.50 -62.25
Rosemary, Spanish USP, cns., dms lb. .60 - 1.00
tech., cns., dms lb. .50 / .70
Rue, bots. lb. 2.00 - 2.50
Safflower, dms., c.l., Atl. coast lb. .1910- —
tanks, same basis lb. .1760- —
Sage, clary, bots. lb.18.50 -25.00
Dalmatian, cns. lb. 4.60 6.00
Spanish, cns. lb. 1.15 - 1.40
Sandalwood, NF, cns. lb.17.50 - —
Sardine, crude, tanks, Pac. coast. lb. .09 Nom.
Sassafras, artif., dms lb. .85 - 1.25
nat., dom., USP, dms lb. 1.75 - 2.10
imp., Brazilian (see Oil ocotea cymbarum).
Savin, cns. lb. 2.75 - —
Savory, cns lb. 4.25 - —
Sesame, refd., dms lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works gal. .35 - —
l.c.l., works gal. .44 - —
tanks, works gal. 23 - —
Snakeroot, Canada, cns. lb.27.50 -31.00
Soybean, crude, tanks, Decatur, lb. .11½- .11⅝
foots (soapstock), acid, 95%, tanks, N. Y. lb. .05¾- —
raw, 50%, tanks, N. Y. lb. .02 - —
refd., alkali, dms. lb. .15½- .15¾
tanks lb. .14 - —
clarified, dms. lb. .15 - .15¼
tanks lb. .13½- —
salad, dms. lb. .16 - .16¼
tanks lb. .14½- .14⅝
Spearmint, USP, dms. lb. 4.75 - —
Sperm, bleached winter, 45° dms. lb. .1725- .1750
tankcars lb. .1550- —
nat., winter, 45°, dms. lb. .1625- .1650
tankcars lb. .1450- —
Spruce, cns., dms lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.25 - 9.50
Southern, cns lb. 2.50 - 3.00
Tall, crude, dms., c.l., works lb. .03½- —
tanks, works lb. .02½- —
dist., dms., c.l., works lb. .07½- —
l.c.l., works lb. .07¾- —
tanks, works lb. .06¼- —
refd., dms., c.l., works lb. .06½- .06¾
l.c.l., works lb. .06¾- .07¾
tanks, works lb. .05¼- .05¾
Tallow, acidless, dms lb. .12¼- .14
Tangerine, Floridian, dms lb. 2.00 - 2.80
Tansy, dms. lb. 7.50 - 8.40
Tar acid (See T's).
Pine, coml., dms., c.l., works lb. .528 - .538
l.c.l., works lb. .601 - —
whse. lb. .712 - —
tanks, works lb. .427 - .438
rectified, NF, drms., incl., l.c.l., works, South gal. 1.07 - —
ex whse., N. Y. C. gal. 1.15 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms lb. 1.70 - 3.75
white, cns lb. 1.95 - 4.00
tech., white, cns lb. .40 - 1.85
Tung, dms., c.l., N. Y. lb. .28¾- —
l.c.l., same basis lb. .29 - .29¼
tanks, N. Y. lb. .27½ Nom.
domestic mills lb. .26½ Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms. lb. .26 - 45
Vetiver, Bourbon, cns. lb.13.00 -17.00
Haitian, cns. lb.10.50 -17.50
Java, cns. lb.22.50 -40.00
Wheat, germ., 5-gal. dms gal.10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms. c.l., f.o.b. N. Y. gal. .51½- .54⅛
65-75 vis., non-ret., dms., c.l., same basis gal. 52½- .55
l.c.l., same basis gal. .57½- .58⅛
80-90 vis., non-ret., dms., c.l., same basis gal. .53½- .56⅛
l.c.l., same basis gal. .58½- .59⅛
125-135 vis., non-ret., dms., c.l., same basis gal. .59½- .62⅛
l.c.l., same basis gal. .64½- .65⅛
145-155 vis., non-ret., dms., c.l., same basis gal. .66 - .68⅛
l.c.l., same basis gal. .71 - .71⅛
175-185 vis., non-ret. dms., c.l., same basis gal. .69½- .73
l.c.l., same basis gal. .74½- .75
USP, 200-210 vis., non-ret., dms., c.l., same basis gal. .73½- .75
l.c.l., same basis gal. .77½- .78
345-355 vis., non-ret. dms., c.l., same basis gal. .77 - .80
l.c.l., same basis gal. .83 - .85

Oil, wintergreen, USP, nat., Northern, cns lb. 6.35 -10.30
Southern, cns lb 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormwood, cns. lb 5.00 - 6.85
Ylang-ylang, Bourbon, bots. lb.17.00 -30.00
extra, bots lb.28.00 -40.00
Madagascar, bots lb No stocks
Oleostearine, bbls. lb. .10¾- .11
Opium, USP, cns lb.19.20 19.45
gran., USP, cns. lb.21.65 -21.90
powd., USP, cns lb.21.65 -21.90
Orange cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.56 - —
Chrome, CP, bbls., dlvd N. of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. rac. Coast for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Dinitroaniline toner lb. 1.30 - —
vis., non-ret., dms., c.l., same basis gal. .69½- .73
Mineral, American, bbls., l.c.l., works lb. .2035- .2060
Molybdated, bbls lb. .45 - —
o-Nitroaniline toner, kgs lb. 1.15 - —
Orange peel bitter, Haitian, bls lb. .14 - .16
sweet, bls lb. 16 - .18
Orris root, Florentine, bls lb. .45 - .50
powd., bbls., bxs lb. .50 - .53
Verona, bls lb. .35 - .40
powd., bbls., bxs lb. .40 - .45
Orthoaminobiphenyl (see o-Aminobiphenyl).
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).

Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl)
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthopehenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amyl phenol)
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine)
Osage orange, cryst. No. 1, bbls., l.c.l lb. .40 - —
extract, liq. No. 1, bbls., l.c.l lb .19 —
Ouabain, USP bots gram 3.00 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb 4.75 5.00
smaller lots, works lb. 4.92 - 5.17

P

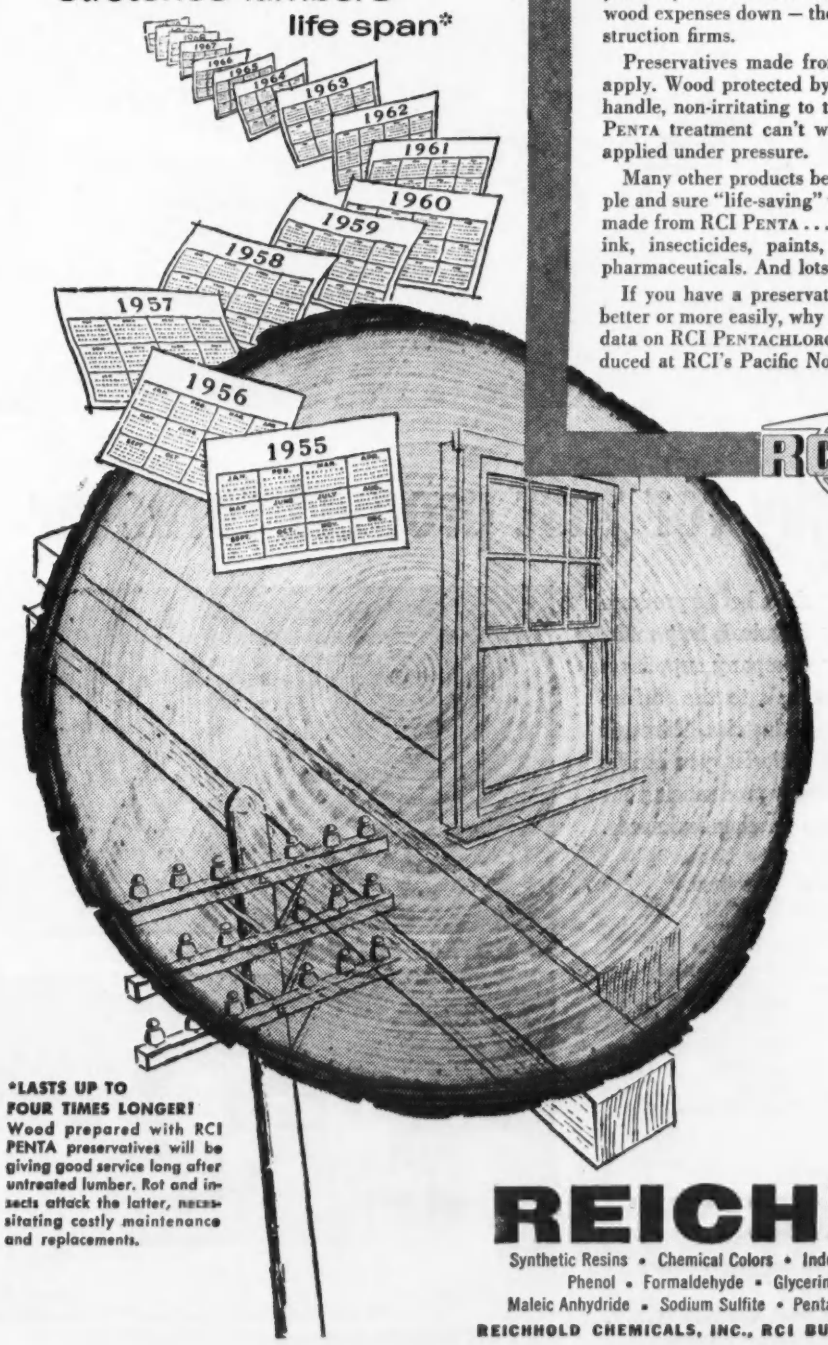
Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb 4.00 —
Pancreatin, USP, bots lb 1.90 2.10
Papain, USP, African, bots lb. 3.50 - 4.00
Ceylon lb. 3.00 3.50

Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
smaller lots oz 5.05 5.20
Sulfate, cns. oz 7.10 7.35
Paprika, Roumanian, bgs. lb. 28 - —
Spanish, bgs lb. .36 - .37
Yugoslavian, bgs lb. 36 - —
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloranilin (see p-Chloroaniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitroaniline)
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude scale, white, 121°-123°F ASTM, solid, c.l., refy lb. .0710- —
fully refd., 122°-124°F ATSM, slabs loose, c.l., refy lb. 0845- —
125°-127°F ASTM, slabs loose, c.l., refy lb. .0845- —
130°-132°F. ASTM, slabs loose, c.l., refy lb. 0855- —
132°-134° ASTM slabs, loose, c.l., refy lb. 0855- —
135°-137°F., ASTM, slabs loose, c.l., refy lb. .0855- —

Prices for paraffin in bags and cns., c.l. 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs. 3.7c. per lb. higher.

AMP temperatures are an arbitrary 3°F. higher than ASTM.

RCI
PENTACHLOROPHENOL
stretches lumber's life span*



*LASTS UP TO FOUR TIMES LONGER! Wood prepared with RCI PENTA preservatives will be giving good service long after untreated lumber. Rot and insects attack the latter, necessitating costly maintenance and replacements.

• Let's consider just one of the outstanding preservative jobs that RCI PENTA does so well.

RCI PENTA is the wood preservative ingredient that adds *years* to the life of wood at low cost. It makes possible solutions that keep wood virtually maintenance-free, and reduce wood replacements drastically. Penta formulations make wood *impervious* to rot, termites, water, and free from warping and checking. Penta treatment is proven . . . successfully used for years by industries vitally concerned with keeping wood expenses down — the utilities, railroads, big construction firms.

Preservatives made from RCI PENTA are clean to apply. Wood protected by them is also clean, easy to handle, non-irritating to the skin and paintable. RCI PENTA treatment can't wash out or leach out when applied under pressure.

Many other products besides wood now receive simple and sure "life-saving" treatment with preservatives made from RCI PENTA . . . gelatin, glue, latex, leather, ink, insecticides, paints, paper, food, fabrics and pharmaceuticals. And lots more!

If you have a preservative job that could be done better or more easily, why not write Reichhold for full data on RCI PENTACHLOROPHENOL . . . now being produced at RCI's Pacific Northwest Division in Seattle.

RCI

Creative Chemistry . . .
Your Partner
in Progress

REICHHOLD

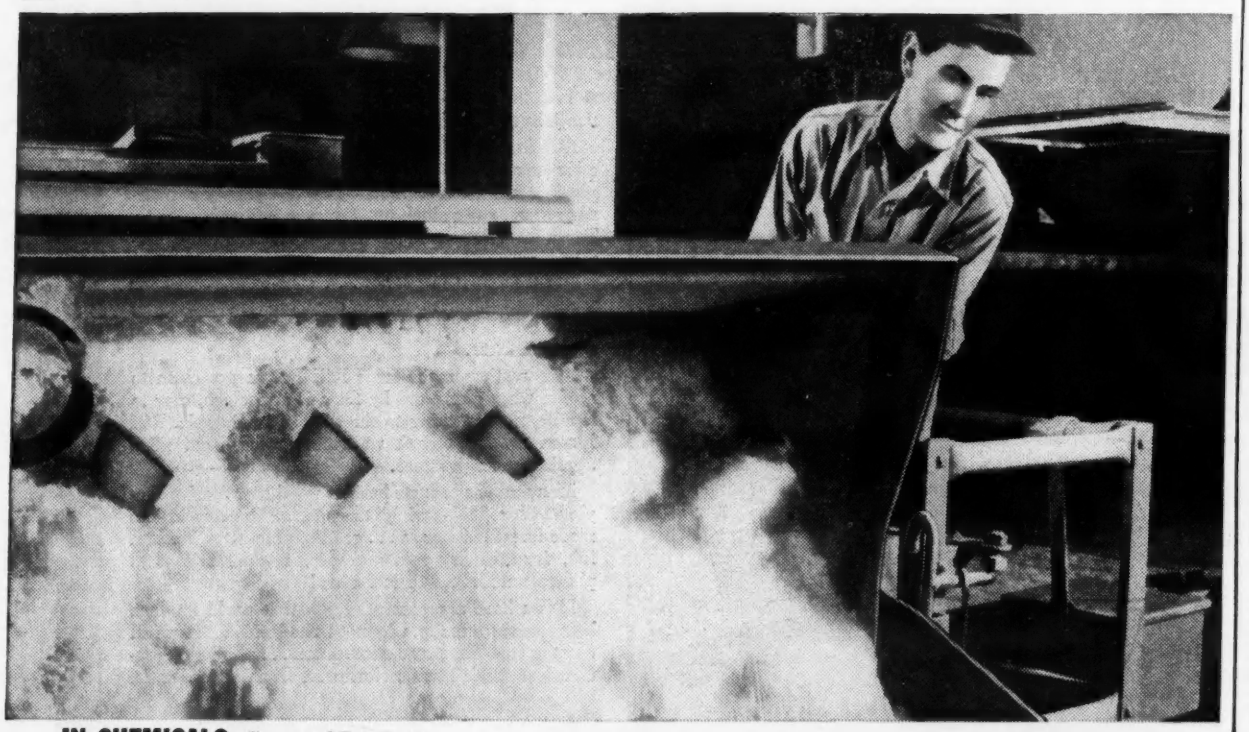
Synthetic Resins • Chemical Colors • Industrial Adhesives • Plasticizers
Phenol • Formaldehyde • Glycerine • Phthalic Anhydride
Maleic Anhydride • Sodium Sulfite • Pentaerythritol • Pentachlorophenol
REICHHOLD CHEMICALS, INC., RCI BUILDING, WHITE PLAINS, N. Y.

Paraformaldehyde—p-Phenylphenol

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld lb. .1075- —
l.c.l., frt. alld lb. .1275- .1375
powd., bgs., c.l., frt. alld lb. .15½- —
l.c.l., frt. alld lb. .17 - —
USP X, fib. dms., c.l. lb. .183 - —
1,000-lb. lots lb. .193 - —
smaller lots lb. .208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l. works lb. .13½- —
l.c.l., works lb. .14½- —
tanks, works lb. .11½- —
Paranitroaniln (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrophenol (see p-Nitrophenol).
Paranitrotoluene (see p-Nitrotoluene).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15% dealers, dms., works lb. .50 - .53
tech., dms., c.l., t.l., works lb. 1.3395- —
l.c.l., works lb. 1.51 - —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paratoluidine (see p-Toluidine).
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs or over lb. .36 - .40
t.c.l., same basis lb. .37 - .53
Passion flower herb, bls. lb .20 - .21
Peanut meal, 45% old process, bgs., mills ton.78.00 Nom.
Pectin, citrus, NF, powd., bbls. lb. 2.05 - 2.06
tech., powd., bbls lb. 1.50 - —
imported, Danish, ex whse. lb. 1.28 - —

Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .04½- .05
Procaine bulk 1,000,000 units. .04½- .05
Sodium, sterile, bulk, 1,000,000 units. .04½- .05
Pentachlorophenol, dms., c.l., t.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .22½- .29
Pentaerythritol, tech., bgs., c.l., works lb. .12 - —
t.c.l., works lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, Tex. refy gal. .14¼- —
Pepper, black, Malabar, spot, bgs. lb. .46½- .47
red, Gondar, spot, bgs lb. .28 - .30
Japanese, hontaka, bgs lb. .32 - .33
birdseyes, bgs., new crop lb. .51 - .52
Mombasa, bgs., shipt lb. .64 - —
Nigerian, bgs. lb. .30 - .31
Turkish, bgs. lb. .20 - .21
white, bgs. lb. .55 - —
Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imp., bls. lb. 1.10 - —
Pepsin, NF, 1:3,000 bulk lb. 3.45 - 3.50
Perchloroethylene, dms., c.l., or truckloads, dlvd. E lb. .12½- —
l.c.l., dlvd. E lb. .14 - —
t.t., 1,000 gal. min., dlvd. E lb. .11½- —
tanks, dlvd E lb. .11 - —
dlvd. W. lb. .11½- —
Peru balsam, dms. lb. 1.50 - 1.75
Petrolatum, amber, dms., c.l., refy. lb. .05 - .05⅜
l.c.l., dlvd lb. .06¾- .07
tanks, refy lb. .03¼- .04¼
Petrolatum, cream, dms., c.l., refy. lb. .06¼- .07⅛
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .04⅜- .05⅜
extra amber, dms., c.l., refy lb. .05¼- .05⅞
l.c.l., dlvd lb. .07 - .07¼
tanks, refy lb. .03½- .04⅜
USP, white, lily, dms., c.l., refy. lb. .06⅝- .07¼
l.c.l., dlvd lb. .08⅜- .09⅛
tanks, refy lb. .04⅞- .06
snow, dms., c.l., refy lb. .07½- .07¾
l.c.l., dlvd lb. .09⅜- .09⅝
tanks, refy lb. .05⅜- .05⅞
soft, dms., c.l., refy lb. .06¾- .07¾
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .05 - .05⅞
yellow, soft, dms., c.l., refy. lb. .05¼- .05¾
l.c.l., dlvd lb. .06⅞- .07⅛
tanks, refy lb. .03½- .05⅞
Petroleum, lacquer diluent, 150°-240°F., b.r., tanks, West Coast, ex tax, Los Angeles gal. .169 - .204
East coast, N. J., N. Y gal. .19 - —
Group 3, benzol-type gal. .14125- .14625
toluol-type gal. .13125- .13375
Mineral spirits, reg., tanks, California, ex tax, San Francisco gal. .164 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —

Petroleum, mineral spirits, odorless, tanks, refy., Watson, Cal. gal. .245 - —
Borger, Tex gal. .24 - —
Houston, Tex gal. .24 - —
Wood River, Ill. gal. .2625- —
dlvd. N. J gal. .32 - —
dlvd. N. Y gal. .33½- —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J. and N. Y. gal. .17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
High solvency (see Petroleum sovent, partial aromatic).
VM&P, 225°-300°F, b.r., tanks, West Coast, Los Angeles gal. .169 - —
Portland, Ore gal. .175 - —
San Francisco gal. .174 - —
Seattle, Wash gal. .175 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, 205°-282°F, b.r., 41°C., m.a.p., N. Y., N. J gal. .245 - —
212°-278°F. b.r., 43°C. m.a.p., N. J gal. .26 - —
212°-284°F. b.r., 19°C. m.a.p., N. J gal. .29 - —
224°-280°F. b.r., 48°C. m.a.p., Houston gal. .215 - —
273°-361°F. b.r., 29°C. m.a.p., N. J gal. .29 - —
282°-325°F. b.r., 41.5°C. m.a.p. Houston gal. .25 - —
287°386°F., b.r., 31°C., m.a.p., N. J. gal. .29 - —
310°-344°F. b.r., 13.5°C. m.a.p., Texas City gal. .33 - —
310°-348°F. b.r., 17°C., m.a.p., N. Y., N. J. gal. .35 - —
320°-360°F. b.r., 16°C. m.a.p., N. Y., N. J. gal. .33 - —
324°-349°F. b.r., 37°C. m.a.p., Houston gal. .33 - —
341°-390°F., b.r., 35°C., m.a.p., N. J gal. .27 - —
352°-413°F, b.r., 30°C, m.a.p., Houston gal. .33 - —
352°-410°F. b.r., 16.5°C. m.a.p., Texas City gal. .33 - —
358°-401°F, b.r., 25°C. m.a.p., N. Y., N. J gal. .39 - —
364°-404°F. b.r., 19°C. m.a.p., N. Y., N. J gal. .425 - —
367°-418°F. b.r., 19.6°C. m.a.p., N. Y., N. J gal. .33 - —
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y., gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .194 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret., ret., dms., c.l., works lb. .16 - .18¼
t.c.l., works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulfonic content, non-ret. dms., c.l., works lb. .15½- —
l.c.l., works lb. .16½- —
tanks, works lb. .12½- —
o-Phenetidine, dms., works lb. 1.00 - —
p-Phenetidine, dms., works lb. 1.00 - —
Phenobarbital, USP, dms., 100-lb. lots lb. 3.50 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 3.50 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms., c.l., frt. alld E. of Rockies lb. .15¾- .16¾
l.c.l., same basis lb. .16½- .17½
tanks, same basis lb. .14 - .15
82-84% (cresol 16-18%), non-ret. drums, c.l., same basis lb. .15¼- .16¼
l.c.l., same basis lb. .16 - .17
tanks, same basis lb. .13½- .14½
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .17¼- .17¾
l.c.l., same basis lb. .18 - .18½
tanks, same basis lb. .15½ - —
USP, syn., dms., c.l., frt. alld. lb. .17¾- .18¾
1,000-lb. lots or more, same basis lb. .18½- .19½
less than 1,000-lb. lots, same basis lb. .19½- .20½
tanks, same basis lb. .16 - .17
Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted lb. .39 - —
over 2,100 lbs., same basis lb. .41 - —
less than 2,100 lbs., same basis. lb. .43 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb. 27.00 - 37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. dms., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine dms., c.l., dlvd. E lb. .40½- —
l.c.l., dlvd. E lb. .41½- —
tanks, dlvd. E lb. .38½- —
m-Phenylenediamine, dms., frt. alld. lb. .90 - —
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80
p-Phenylenediamine, redist., dms., works lb. 2.00 - —
tech., refd., dms., same basis lb. 1.10 - 1.35
Phenylethanolamine, dms., c.l., works lb. .75½- —
l.c.l., same basis lb. .76 - —
Phenylethyl acetate, bots lb. 1.30 - —
b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 - —
smaller lots, works lb. 1.15 - 1.40
Phenylhydrazine base, CP, bots lb. 3.00 - 3.07
Hydrochloride, coml., kgs., works. lb. 1.75 - —
purif., bots., works lb. 5.17 - —
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.70 - —
smaller lots, dlvd lb. 2.00 - —
Phenylethylphenyl acetate, bots lb. 2.85 - 4.40
o-Phenylphenol, dms., l.c.l., works lb. .42 - .44
p-Phenylphenol, bgs., c.l., works lb. .35 - —
l.c.l., works lb. .39½- —



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Isopropyl Ether
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Decyl Alcohol
Denatured Ethyl Alcohol

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IN PETROLEUM (*Lubricants and Gasoline Additives*)

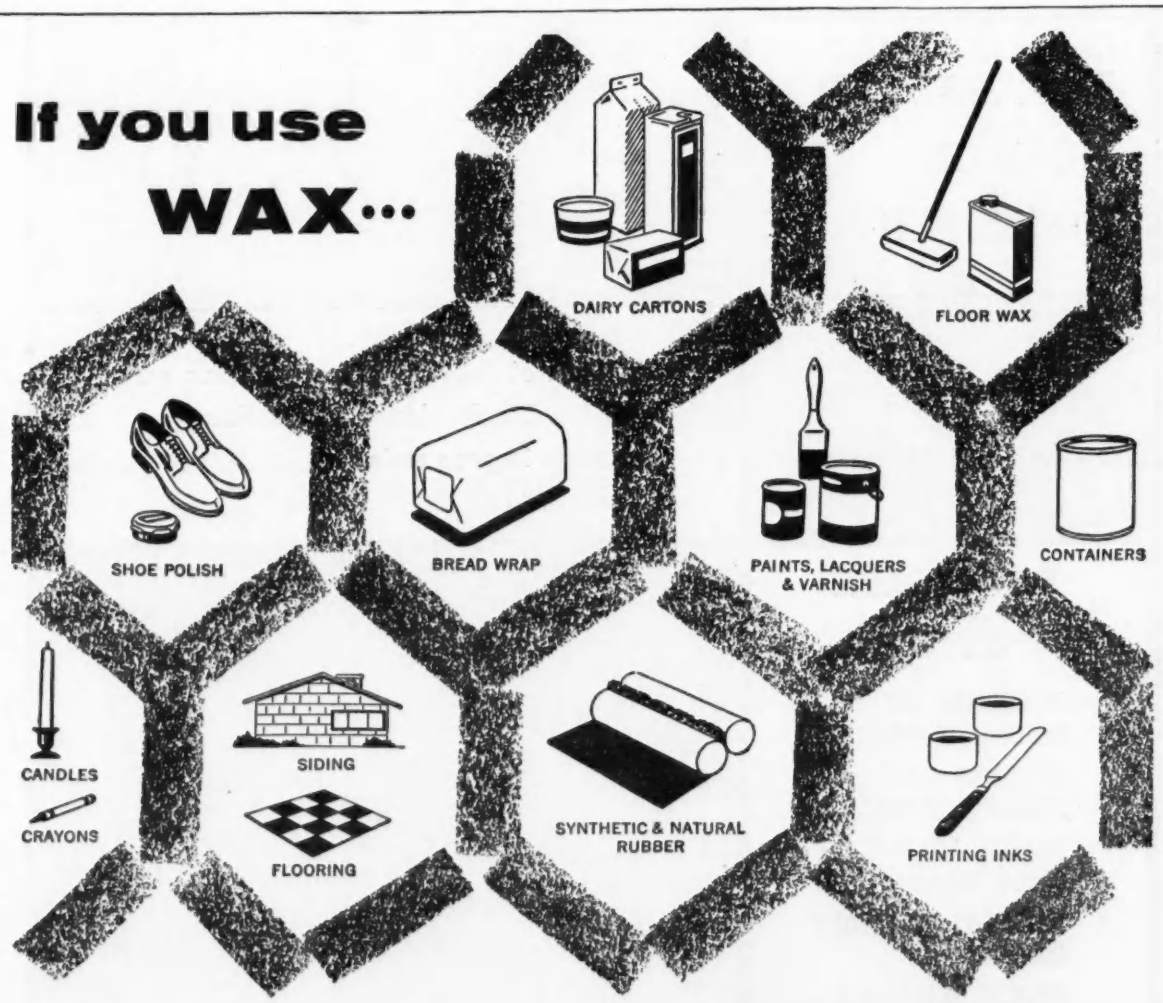
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., works lb. 17.75 - —
tech., tin dms., works lb. 10.45 - —
Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans ton. 43.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines long-ton. 4.76 - —
70-68%, b.p.l., c.l., same basis long-ton. 5.16 - —
72-70%, b.p.l., c.l., same basis long-ton. 5.81 - —
75-74% b.p.l., c.l., same basis long-ton. 6.81 - —
78-76%, b.p.l., c.l., same basis long-ton. 7.81 - —
The above prices are based on fuel oil at $2.35 per bbl. and labor at $1.31.
Phosphorus, amorph., red, dms., t.l., works lb. .43 - —
smaller lots, works lb. .44 - .45
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20½
l.c.l., works, frt. equald. lb. .21½ - —
tanks, works, frt. equald. lb. .19 - —
Oxychloride, dms., c.l., works. lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .12½ - —
Pentasulfide, solid, dms., c.l., works lb. .11½ - —
l.c.l., works lb. .12½ - —
Pentoxide, dms., c.l., works lb. .13½ - —
l.c.l., works lb. .16½ - —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms lb. .31 - .38
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tankcars, works lb. .12½ - —
Phthalic anhydride, ogs, c.l., works, frt. equald lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19½ - —
Phthalimide, 97%-98%, dms., works, frt. alld lb. .65 - .70
Phthalylsulfacetamide, 1,000-lb. lots or more lb. 5.00 - —
a-Picoline, ret. dms., c.l., works, frt. equald lb. .43 - .43½
l.c.l., works, frt. equald lb. .44 - —
tanks, same basis lb. .415 - .422
b,g-Picoline, 5° dms., c.l., works. lb. .32½ - —
l.c.l., works lb. .33 - —
g-Picoline, 98%, dms., c.l., works. lb. 2.65 - —
Pilocarpine hydrochloride, USP, bots oz. 5.25 - —
Nitrate, USP, bots., vials oz. 4.80 - 4.90
Pimento, Jamaican, bgs. lb. .83 - —
Mexican, bgs. lb. .74 - —
Pink root, bls. lb. 3.00 - 3.25
d-Piperazine hexahydrate, French Codex, bots kilo. 8.00 - 8.50
Piperidine, dist., dms., frt. equald. lb. 2.60 - 2.70
Piperonyl butoxide, dms., dlvd. E. lb. 4.50 - 5.05
Cyclonene, dms., dlvd. E. lb. 3.70 - 4.25
Pitch, coaltar, 150°-170°F. m.p., tanks, works ton. 35.00 - —
Cottonseed, raw, dms., works lb. .02¼ - .03
Linseed, dms lb. .06 Nom.
Marine, dms. lb. .04¼ - .05
Petroleum (see Asphalt, petroleum).
Soybean, dms., works lb. .05 Nom.
Tall, dms., works lb. .03¼ - .04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 80.00 Nom.
Pleurisy root, bls lb. 45 - .50
Podophyllum resin, NF, dms. lb. 14.25 - —
Poke root, bls lb. .19 - .22
Polymyxin, bulk, bots., dms., 50 billion units or more, 1,000,000 units. .52 - —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
Tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000 lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
Poppy seed, Argentine, bgs. lb. .17½ - —
Dutch, bgs. lb. .21½ - —
Iranian, bgs. lb. .15 - —
Polish, bgs. lb. .20 - —
Turkish, bgs. lb. No prices.
Potash, caustic, reg., flake, 88-92%, dms., c.l., works 100 lbs. 9.15 -
l.c.l., works 100 lbs. 10.20 - —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works. 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd. dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .15 - —
l.c.l., works lb. .15½ - —
Potassium bichromate in dms ½c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs. 1 shipt. lb. .36½ - —
dms., c.l. lb. .36 - —
smaller lots lb. .37 - .40
imp., kgs lb. .27¾ - .28
Bromate, dms., 1,000 lbs. or more. lb. .47 - —
25-200-lb. lots lb. .57 - .62
Bromide, USP, gran., bbls., kgs. lb. .35 - .36
Carbonate, N.F., gram., bbls., dms lb. .20 - —
powd., bbls., dms lb. .21 - .23
tech., calcined, bbls., c.l., works. 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs. 10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Chlorate, cryst., dms., c.l., works lb. .10¼ - —
l.c.l., works lb. .11½ - .13
powd., dms., c.l., works lb. .10¾ - —
l.c.l., works lb. .12 - .12½
export, dms., New York lb. .12¾ - .13½
NF, gran., 25-lb. metal dms. lb. .35 - —
Chloride, USP, cryst., dms. lb. .21 - .23
gran., dms lb. .15 - .17
powd. dms lb. .24 - .26
Chromate, tech., bgs lb. .50 - .50½
Citrate, USP gran., dms lb. .41 - —
powd., dms lb. .40½ - .41½
Cyanide, dms., 20,000-lb. lots or more, works lb. .43 - —
2,000-19,999-lb. lots, works lb. .455 - —
smaller lots, works lb. .465 - —
Dichromate (see Potassium bichromate).
Ferricyanide, drums, ton lots lb. .50 - —
Ferrocyanide, bgs., ton lots lb. .22½ - —
smaller lots lb. .23 - —
Fluoborate, fib. dms., c.l., works. lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate dms lb. .75 - .76
Guaiacolsulfonate, NF, dms. lb. 2.10 - 2.30

Potassium hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½ - .32
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms. lb. 1.90 - 1.95
Manure salt, 22% K_2O, June shipt. unit-ton. .17 - .1765
July forward unit-ton. .1765 - .21
Metabisulfite, gran. dms lb. .20 - .21
powd. dms lb. .25 - —
Muriate, 59-63% K_2O, bulk, c.l., works, base price unit-ton. .36 - —
July forward unit-on. .38 - —
bgs., c.l., works, base price. ton. 26.00 - —
July forward ton. 27.20 - —
Nitrate, cryst., bbls., 20-ton lots. 100 lbs. 14.40 - —
smaller lots 100 lbs. 14.65 - 14.90
gran., bbls., 20-ton lots. 100 lbs. 9.75 - —
smaller lots 100 lbs. 11.10 - 11.50
powd., bbls., 20-ton lots. 100 lbs. 10.75 - —
smaller lots 100 lbs. 12.00 - 12.50
USP, gran., dms. lb. .18 - —
Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.t., works ton. 189.00 - —
dms., ton lots, ex whse ton. 293.50 - —
smaller lots, ex whse ton. 298.00 - —
Powdered Potassium pentaborate $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 - —
l.c.l., works lb. .16½ - —
Permanganate, coml., dms., works. lb. .23½ - .26¼
USP, dms., works lb. .26½ - .28
Persulfate, dms., 5-ton lots, works. lb. .18 - —
1-ton lots, works lb. .20 - —

Potassium phosphate, tetrabasic, bbls., works lb. .16½ - .18½
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works 100 lbs. 17.00 - 17.30
l.c.l. 100 lbs. 17.80 —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms. or more, works 100 lbs. 6.55 - 6.95
tanks, works 100 lbs. 5.45 - —
electrical grade, 29° Be, 1:2.0 dms., c.l., works 100 lbs. 6.50 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.20 - 7.60
bgs., c.l., works, June shipt.
Silicofluoride, bbls., works lb. .09 - .10
Stannate, dms., frt. alld. E lb. .693 - .759
Sulfate, agricultural, 50% K_2O, bulk, works, base price. unit-ton. .64 - —
July forward unit-ton. .67 - —
NF VII cryst. dms lb. .31 .33
gran. dms. lb. .18½ - —
powder dms lb. .36½ - .17
Sulfocyanide, NF, cryst., (see Potassium thiocyanide).
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works lb. .77 - .79
Titanate, ctrs., c.l., works lb. .14 - —
5-ton lots, works lb. .14½ - —
1-ton lot or less, works lb. .14¾ - —
Toluene sulfonate, dms., c.l. or tl. works lb. .42 - —
l.c.l., works lb. .46 - —

Phloroglucinol—Propylene Dichloride

Potassium-magnesium sulfate, bulk, works basis 40% K_2SO_4, 18% MgO, base price ton. 13.45 - —
July forward ton. 14.00 - —
Potassium-sodium tartrate, NF gran., powd., dms., c.l. lb. .36½ - —
5,000-lb lots lb. .37 - —
smaller lots lb. .37½ - .42½
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l. works lb. .52½ - 55
Pregnenolone bots gram. .45 - —
Acetate, bots gram. .40 - —
Procaine hydrochloride, USP, dms., 1,000-lb lots, frt. alld lb 2.90 - —
100-lb lots lb 3.00 - 3.60
Progesterone USP bots., 100 gram lots gram. .50 - —
Acetate bots gram. 70 - —
Propane, indust., tanks, group 3. gal. .02½ - —
N Y Harbor gal. .07¼ - —
n-Propyl acetate, dms., c.l., dlvd lb. .12¾ - —
l.c.l., dlvd lb. .13¾ - —
tanks, dlvd lb. .1075 - —
Gallate, dms., 100 to 2,000-lb. lots works lb 3.90 - 4.40
p-Hydroxybenzoate, USP, dms lb. 2.30 - 2.40
Thiouracil bots., 50-kilo lots or more kilo. 55.00 - —
smaller lots kilo. 55.10 - 55.30
Propylene dichloride, dms. c.l., dlvd. E lb. .0825 - —
l.c.l., same basis lb. .095 - —
tanks, same basis lb 07 - —
Prices in West 1c higher dlvd., on same basis.



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Here's why:

- **handles at temperatures of wax in conventional equipment.**
- **gives a high gloss, enhances and adds richness to colors, improves scuff and abrasion resistance.**
- **is completely compatible with all waxes and actually fortifies all your wax formulations.**
- **permits close control of coating weight.**
- **easier to use, easier to handle. You can use higher percentages of A-C POLYETHYLENE on standard coating equipment.**

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☐ Please send me technical literature on A-C POLYETHYLENE.
☐ Please send me free samples of A-C POLYETHYLENE.
☐ My proposed use of A-C POLYETHYLENE is:

Name_____
Title_____
Company_____
Address_____
City_____ State_____
Type of Business_____ OPD-8

Propylene Glycol—Senna Leaves

Propylene glycol, indust., dms., c.l., dlvd. E lb. .15½ - —
l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .13½ - —
USP, dms., c.l., dlvd. E lb. .17½ - —
l.c.l., same basis lb. .18½ - —
tanks, same basis lb. .15½ - —
Methyl ether, dms., c.l., dlvd. lb. .20 • —
l.c.l., same basis lb. .21 • —
tanks, same basis lb. .18½ - —
Oxide, dms., c.l., dlvd. E lb. .17½ - —
l.c.l., dlvd. E lb. .18½ - —
tanks, dlvd. E. lb. .15½ - —
Psyllium seed, black, bgs. lb. .55 • —
blonde, bgs. lb. .18 • —
husks, bgs. lb. .40 • —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝ - .04¼
smaller lots lb. .03⅞ - .04½
imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06½ - —
fine, bgs. ton lots lb .04 • —
sun dried coarse bgs ton lots lb. 02½ - .04
fine bgs. ton lots lb. .02½ - .04
Pumpkin seed, bgs lb. .25 • .36
Pyrethrin, syn., (see Allethrin)
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .45 • —
powd., 1.3% pyrethrins, bbls., works lb. .65 • —
liq. 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works gal. 8.35 - 8.55
100/1 basis (10 grams pyrethrins per 100cc odorless base), dms., works gal. 41.75 - 42.75
oleoresin, dewaxed, 20%, dms., works lb. 9.80 - 9.90
purif., 20% dms., works lb. 10.00 - 10.10

Pyridine, denaturing, cms., c.l., works and frt. equald gal. 2.77 • —
l.c.l., same basis gal. 2.80 • —
refd., 2°, non-ret. dms., l.c.l., same basis lb. .75 • —
Pyridoxine hydrochloride, bots., 100-gram lots gram .46 • —
Pyrites, Canadian, works long-ton 3.00 - 8.00
Pyrocatechol (see Catechol).
Pyrogallol, NF, dms. lb. 3.27 - 3.30
Pyroxylin, scrap, ungrd., amber, dms., works lb. .20 • —
black, dms., works lb. .12 • —
mixed, mottled, dms., works lb. .13 • —
shavings, amber, cs., works lb. No stocks.
mixed colors, dms., works lb. .11 • —
white, china, ivory, dms., works lb. .16 • —
dense, opaque, dms., works, lb. .12 • .15
translucent pastels, cs., works, lb. .14 • —
transparent colorless, dms., works lb. .25 • —
colors, dms., works lb. .15 • —
USP, bots lb 9.50 • —

Q

Quassia chips lb. .17 • —
Quebracho extract, clarif., grs., 70% tannin bgs., c.l., lb. .16½ - .16¾
liq., 35% tannin, bbls., works, lb. .08¼ - —
solid, clarif., 64% tannin, bgs., c.l., ex-dock, duty extra, lb. .12 23/64 - —
ord. 63% tannin, bgs., c.l., same basis lb. .11 21/32 - —
Quercitron extract, cryst., No. 1, bbls., l.c.l. lb. .40 • —
liq., No. 1, bbls., l.c.l. lb. .19 • —
Quicksilver (see Mercury metal).
Quince seed, bgs lb. 2.00 Nom.
Quinidine sulfate, USP, cns., 100-oz. lots oz. .87 • —
Quinine, NF, cns., 100-oz. lots oz. .54 • —
Bisulfate, USP, cns., 100-oz. lots oz. .37½ - —
Ethylcarbonate, NF, cns., 100-oz. lots oz. .63½ - —
Hydrobromide NF cns. 50-oz. cns. oz. .47½ - —
Sulfate, USP, cns., 100-oz. lots oz. .42 • —
Quinine and Urea hydrochloride, NF, cns oz. .56 • —
Quinoline, dms., c.l., frt. equald lb. .50¾ - —
l.c.l., same basis lb. .51¼ - —
tanks, same basis lb. .50 • —

R

R salt, paste, dms., frt. alld., 100% basis lb. .88 • —
powd., frt. alld., 100% basis lb. .98 • —
Rauwolfia serpentina root, powd., bbls, dms lb. 2.00 - 3.00
Red, BON acid maroons, pure, obls. lb. 1.75 • —
resinated, bbls lb. 1.50 • —
arylid, deep shades, bbls lb 3.60 • —
light shades, bbls lb. 2.75 • —
maroon, bbls lb. 3.60 - 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 • —
light shade, bbls., same basis, lb. 4.00 • —
medium shade, bbls., same basis lb. 4.25 • —
Red, cadmium lithopone, medium light shade, bbls., same basis lb. 4.05 • —
orange shade, bbls, same basis lb. 3.95 • —
lithopone, deep shade, bbls., same basis lb. 1.93 • —
light shade, bbls., same basis, lb. 1.70 • —
maroon shade, bbls., same basis lb. 2.05 • —
medium shade, bbls., same basis lb. 1.85 • —
medium-light shade, bbls., same basis lb. 1.77 • —
orange-red shade, bbls., same basis lb. 1.64 • —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco

Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar)
Eosin toner, bbls, works lb. 1.60 • —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .12¾ - —
Iron oxide, nat., 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley O., Easton, Pa., East St. Louis lb. .04 • .07½
syn. 98% ferric oxide, bgs., c.l., works lb. .12¾ - —
l.c.l., works lb. .13 • —
Lake C toner, alizarin, bbls., works lb. 1.10 • 1.20
Lithol toner, bbls., works lb. .85 • —
rubine toner, pure, bbls., works, lb. 1.50 • —
resinated, bbls., works lb 1.40 • —
Lithol, Virginia type, bbls., works lb. 1.40 • —
Maroon toner, MNPT, kgs., c.l., works lb. 3.60 • —
10,000-lb. lots, works lb. 4.22 • —
smaller lots, works lb. 4.24 • —
Metallic, bbls., c.l., works lb. .02½ - —
l.c.l., works lb. .02¾ - —
Naphthol ITR, bbls., works lb. 5.25 • —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works lb. .06¾ - —
l.c.l., works lb. .07 • —
Para, toner, bbls. lb. 1.05 • —
chlorinated, kgs lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb. 5.35 • —
tungstated, PTMA, works, kegs. lb. 6.15 • —
Spanish oxide, bbls., c.l., ex dock lb. .05¾ - —
l.c.l., ex dock lb. .06 • —
ex whse., New York lb. .06½ - —
Toluidine toner, deep shades, kgs., works lb. 1.60 • —
light shades, kgs., works lb. 1.60 • —
Turkey, bbls., works lb. .62 • —
Tuscan, bbls. frt equald lb. .24½ - .25
Venetian, 15%, bgs., works lb. .0350 - .037
20%, bgs., works lb. .0475 - —
25%, bgs., works lb. .0525 - —
30%, bgs., works lb. .0550 - —
35%, bgs., works lb. .0575 - —
40%, bgs., works lb. 0625 - —
Watchung-type, bbls lb. 1.95 • —
Red KB base (see 4-Chloro-o-aminotoluene).
Red, precipitate (see Mercuric oxide, red).
Red saunders, NF, powd., bbls lb. .35 • .40
Reserpine, cryst., bots gram 12.00 • —
Resorcinol, tech. grade, dms., c.l., works lb. 77½ - —
l.c.l., works lb. 78½ - —
USP, cryst., dms., works lb. 2.75 • —
powd., dms., works lb. 2.95 • —
Monoacetate, NF, dms lb. 3.00 - 3.25
Rhatany root, bgs lb. .15 - .16
Rhodinol, 5-lb. cans lb. 25.50 - 34.00
Rhubarb root, India, whole, bgs lb. 1.75 Nom.
powd., bbls lb. 2.50 Nom.
Riboflavin, USP, bots., dlvd. kilo. 80.00 • —
readily soluble, bots., dlvd kilo. 130.00 • —
5'-phosphate-sodium, bots., 100-kilo lots or more kilo. 140.00 • —
Rochelle salt (see Potassium-sodium tartrate).
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works, 100% basis lb. 10.00 • —
resin, 25-45%, fib. dms., works, 30% basis lb. 3.00 • —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03 • —
ton lots, same basis lb. .04 • —
Rutin, NF, fib. dms. 25-kilo lots, kilo. 17.50 - 18.50
10 to 25-kilo lots kilo. 17.50 - 20.00
1 to 10-kilo lots kilo. 18.90 - 20.00
Ryania, 100% powd., bgs., c.l., works lb. .22 • —
l.c.l., same basis lb. .24 • —

S

Sabadilla seed, powd., bbls lb. 49 • .49¼
activated, ground with lime, bbls lb. .30 • .32
Saccharin, USP, cryst., soluble, dms., 1000-lb. lots lb. 1.60 • —
smaller lots lb. 1.70 • 1.80
powd., soluble, insoluble, dms., 1000-lb. lots lb. 1.65 • —
smaller lots lb. 1.75 • 1.95
Saffron, Spanish, USP, tins lb. 35.00 - 40.00
Safrol, dms lb. 1.60 • —
Sage, Cretan, bgs lb. .11 • —
Dalmatian, bgs. lb. .40 • —
Italian, bgs. lb. .14 • —
Sago flour, raw, bgs lb. .06½ - .06¾
refd., bgs lb. .08¼ - .08¾
Sal soda (see Soda sal).
Salol, NF, gran., bbls., kgs lb. 1.10 • —
Powdered salol, 25c. higher
Salt, rock, paper bgs., c.l. 100 lbs. .99 • —
table, vacuum, common, fine, paper bgs, c.l. 100 lbs. 1.17 • —
Saltcake, dom., bulk works, 100% Na_2SO_4 basis ton 28.00 • —
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies, chips bgs. .65 • .66
powd., fib. dms lb. .75 • .76
Sanguinarine nitrate, bots oz. 4.75 • 5.50
Sarsaparilla root, Imp., Honduras, bls lb. .58 • .62
Mexican, bls. lb. .58 • .62
Sassafras root bark, ord., bls lb. .45 • —
select, bbls. lb. .65 • —
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb. .95 • —
powd., bgs., frt. alld., 100% basis, lb. .95 • —
Scopolamine hydrobromide, USP, bots oz. 17.40 • —
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½ - —
smaller lots lb. .31 • .32
Selenium, powd., dms., dlvd lb. 6.00 - 7.50
Senega root, bls lb. 2.35 • —
Senna leaves, Alex., whole and half, bls lb. .19 • —
siftings lb. .17 • —
Tinnevelly, No. 1, bls lb. .16 • .18
No. 2, bls. lb. .13 • .15
No. 3, bls. lb. .11 • .13
powdered, bbls., bxs lb. .18 • —
pods, bls. lb. .14 • —

FOR BETTER NO-RUB POLISHES

Petrolite **R-50**

A labor, trouble and money saving package for manufacturers of no-rub polishes.

A blend of Petrolite microcrystalline wax and Petrolite-developed, high melting, phenolic terpene resin.

PETROLITE R-50

- ELIMINATES THE BLENDING OPERATION
- SIMPLIFIES RAW MATERIAL STORAGE
- INSURES AGAINST COLOR DEGRADATION
- SIMPLIFIES INVENTORY CONTROL
- REDUCES EQUIPMENT REQUIREMENTS
- COMPATIBLE WITH NO-RUB POLISH INGREDIENTS
- ADAPTABLE TO MANY FORMULATIONS

Petrolite R-50 is a blend of a high-melting, phenolic terpene resin, developed and manufactured by Petrolite, and Petrolite oxidized microcrystalline wax. It provides a light-colored resin blend suitable for use in all emulsion-polish-making equipment. It is convenient to store, easy to handle, readily emulsifiable, conservatively priced.

R-50 is available in 100-pound cartons. Samples, price information and suggested formulation data are available on request.

SPECIFICATIONS

ACID NO.	SAP. NO.	R & B S.P., °F	COLOR, NPA	PEN 100/5
40-50	65-80	190-200	4½ Max	2 Max

Petrolite Waxes are stocked at and available for delivery from Jersey City, New Jersey; Chicago, Illinois; Los Angeles, California and Kilgore, Texas.

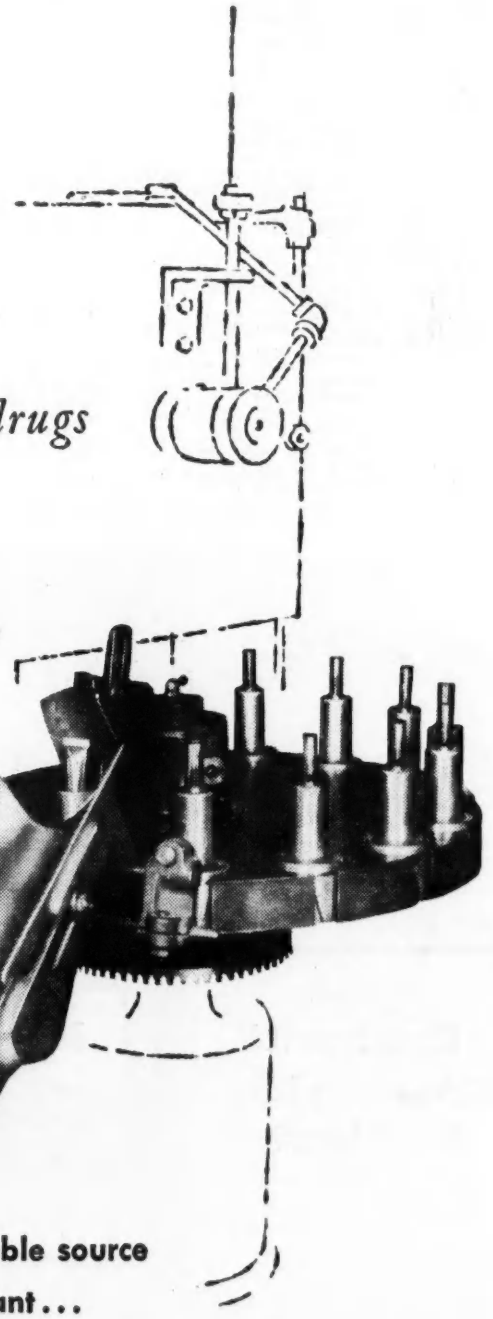
PETROLITE CORPORATION
WAX DIVISION
Chrysler Building, New York 17, N. Y. • P. O. Box 390, Kilgore, Texas

R5-50B

Mallinckrodt

mercurials

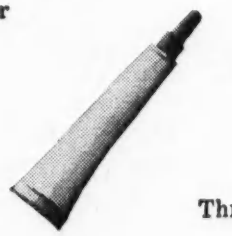
—active ingredient in many drugs



Mercury serves man well in filling important medical needs. For instance, *Mercuric Acetate* is now used as a reagent in the manufacture of organic diuretics. Mallinckrodt Mercuric Acetate for this purpose is carefully controlled to assay not less than 95.0% nor more than 98.0%.

Qualities found in Mallinckrodt mercury products are high purity and controlled uniformity.

Mercuric Oxide Yellow USP is used in antiseptic eye preparations.
Mercurous Chloride Mild NF (Calomel) is used as a cathartic and local antiseptic.
Mercuric Chloride USP, used as a disinfectant and in scalp preparations, comes in three grades: granular for tablets, powder for dry mixes, and crystals for solutions.



a reliable source is important...

Mallinckrodt, during the past 87 years, has been a chief source of raw materials for pharmaceutical manufacturers. Through experience, they have learned that Mallinckrodt supplies chemicals in consistently controlled physical form...always pure, always dependable.

Mallinckrodt® Since 1867

PRIME PRODUCER OF CHEMICALS FOR THE PHARMACEUTICAL INDUSTRY

Mallinckrodt Chemical Works
Mallinckrodt Street, St. Louis 7, Mo....72 Gold Street, New York 8, N. Y.
Chicago • Cincinnati • Cleveland • Los Angeles • Philadelphia
San Francisco • Montreal • Toronto

Serpentaria—Sodium Phenolsulfonate

Serpentaria root, bls ..... lb. 4.95 - —
Sesame seed, Nicaragua, hulled, shipt., bgs lb. .25 - .26
nat., bgs. ..... lb. .17½- —
Salvadorian, natural ..... lb. .16½ —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .58 - —
bbls., 1,500-lb. lots ..... lb. .60 - —
kgs., 1,500-lb. lots ..... lb. .61 - —
refd., bgs., 1,500-lb. lots ..... lb. .66 - —
bbls., 1,500-lb. lots ..... lb. .68 - —
kgs., 1,500-lb. lots ..... lb. .69 - —

Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb. higher for all packages.

Lemon, No. 1, bgs., 10-bg. lots. lb. .54 - .56
No. 2, bgs., 10-bag lots ..... lb. .52 - .54
Superfine, bgs., 10-bag lots... lb. .51 - .52
TN, bgs., 10-bag lots ..... lb. .50 - .51
Shellac in 1 to 10-bg. lots 1c. per lb. more.

Shingle stain oil (see Oil, shingle stain).

Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton.25.00 - —
l.c.l., works, exwhse ton.45.00 -55.00
hard-quartz, 99½, 325 mesh, bgs, c.l., works ton.20.00 - —
l.c.l., works ..... ton.25.00 -30.00
140 mesh, bgs., c.l., works ton.15.00 - —
l.c.l., works ..... ton.20.00 - —

Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works ..... lb. .20 - .28½

Silver bullion, ingots, cs Troy oz. .90¾- —
Cyanide, fib. dms., 2,500-oz. lots. oz. .81¼- —
1,000-oz. lots ..... oz. .81⅝- —
500-oz. lots ..... lb. .81¾- —
100-oz. lots ..... lb. .82 - —

Silver nitrate, CP, cryst., bots., 2,-500-oz. lots ..oz. .57¾- —
1,000-oz. lots ..... oz. .59¼- —
500-oz. lots ..... oz. .59½- —
250-oz. lots ..... oz. .60 - —

USP granular silver nitrate 4c. per oz. higher.

Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —

Soapbark, whole, bls ..... lb. .45 - —
crushed, bls., bbls ..... lb. .55 - —
powd., bbls ..... lb. .55 - —

Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.70 — —
l.c.l., stock points 100 lbs. 2.80 4.57
bbls., c.l., works 100 lbs. 2.30 —
l.c.l., stock points 100 lbs. 3.35 4.12
bulk, c.l., works 100 lbs. 1.40 —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
l.c.l., stock points 100 lbs. 3.75 4.52
bbls., c.l., works 100 lbs. 2.20 —
l.c.l., stock points 100 lbs. 3.25 5.52
bulk, c.l., works 100 lbs. 1.35 —

Soda, caustic, solid, 76%, dms., c.l., dms., c.l., works, frt. equald 100 lbs. 4.25 - —
l.c.l., stock points 100 lbs 5.45 - —
liq., 50%, sellers, tanks, works, dry basis 100 lbs. 2.70 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.70 - —
70%, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.80 - —

Soda, solid, 76%, dms., c.l., works. 100 lbs. 3.85 - —
l.c.l., stock points. 100 lbs. 5.05 - —
Sal., bgs., c.l., works ..... 100 lbs. 1.40 - —
l.c.l., works ..... 100 lbs. 1.70 - —

Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
dms., c.l., works .. lb. .12¾- —
NF, 60%, gran., dms., c.l., works lb. .12½- —
l.c.l., works ..... lb. .14 - —

Alginate, NF, white powd. dms., ton lots, works lb. .87 - 1.30
refd., bbls., works ..... lb. .83 - —
p-Aminobenzoate, dms., 1,000-lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
p-Aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted. lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25

Antimoniate, bbls., c.l., dlvd E lb. .28 - —
l.c.l., dlvd. E ..... lb. .29½- —
Arsenate, dms., c.l., works .. lb. .12½- —
l.c.l., works ..... lb. .13¾- .14¾
Arsenite, dms., c.l., works ... lb. .13½- —
l.c.l. works ..... lb. .14¼- .15½
soln., dms., works ..... gal. .59 - .67
Ascorbate, dms., 25-50 kilo lots kilo.16.00 - —
10-kilo lots ..... kilo.16.35 - —
5-kilo lots ..... kilo.16.75 - —
1-kilo lots ..... kilo.17.00 - —
bots, 500-gram lots ..... kilo.17.50 - —
Benzoate, tech., bbls., dms., 100-lb lots or more lb. .39 - —
USP, bbls., dms., 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works ..100 lbs. 2.70 - —
l.c.l., works 100 lbs. 3.70 - —
powd., bgs., c.l., works 100 lbs. 2.30 - —
l.c.l., works ..... 100 lbs. 3.30 - —

Sodium bichromate, bgs., c.l., works lb. .11½- —
l.c.l., works ..... lb. .12 - .13¼
Bifluoride, bbls., c.l., works, frt. equaled lb. .17½- —
l.c.l., same basis lb. .1790- —
Bisulfate, bulk, c.l. works 100 lbs. 2.00 - —
dms., c.l., frt. equald..100 lbs. 3.00 - 3.60
l.c.l., frt. equald ....100 lbs. 3.50 - 4.10
Bisulfite, anhyd., bgs. c.l., works. 100 lbs. 4.50 - —
l.c.l., works ..... 100 lbs. 4.90 - —
soln., 35° bbls., c.l., works. 100 lbs. 1.55 - —
l.c.l., works ..... 100 lbs. 2.05 - —
Borate (see Borax).
Bromide, USP, bbls., works lb. .35 - —
Carbonate, anhyd. (see Soda ash).
cryst., monohydrated (see Soda, sal).
monohydrated bgs., c.l., works 100 lbs. 2.90 - —
l.c.l., works 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works. lb. .08¾- —
l.c.l., works lb. .10¼- .11
Chloride, tech. (see Salt).
USP, bgs. ..... lb. .05 - .12
Chlorite, tech., dms., c.l., works. lb. .58 - —
20-ton lots or more, works. lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Chromate, dms., c.l., works... lb. .13¼- —
l.c.l., same basis ..... lb. .13¾- .15
Citrate, anhyd., dms. ..... lb. .60 - .65
NF VIII, gran., dms ..... lb. .26 - .30½
USP, XVI gran., dms ..... lb. .29½- .34

Sodium citrate, USP, powd. prices ½c. higher.

Cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots works lb. 1.00 - 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb. lots lb. .178 - —
over 1,000-lb lots lb. .188 - —
100-lb. to 1,000-lb. lots lb. 198 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., works ..... lb. .14¾- —
anhyd., dms., c.l., works... lb. .17 - —
l.c.l., works ..... lb. .17¾- —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10-ton lots lb. .13½- —
smaller lots lb. .14 - —
Fluoride white, 97%, fib. dms., c.l., works, frt. equald lb. .1250- —
l.c.l. works lb. .1290- —
Formate, bgs., c.l., works ..... lb. 7.60 - —
l.c.l., works 100 lbs 8.65 - —
Gentisate, 100-lb. fib. dms ..... lb. 8.50 - —
Gluconate, refd., dms. ..... lb. .80 - .83
tech., dms ..... lb. .35 - —
Glutamate, mono-, dms., c.l. ... lb. 1.55 - —
Hydride, dms., works ..... lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld. lb. .22 - —
l.c.l., frt. alld ..... lb. .22½- —
Hydroxide, tech. (see soda caustic).
NF pellets, 100-lb dms., 1 to 100-dm. lots lb. .18½- .23
Hypophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, USP (see Sodium thiosulfate).
pea crystals, bgs. ..... 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works. 100 lbs. 4.50 - 4.75
l.c.l., works ..... 100 lbs. 5.00 - 5.05
tech., bgs., works ..... 100 lbs. 4.50 - —
l.c.l., works ..... 100 lbs. 4.90 - 6.90
Sodium hyposulfite crystals in bbls., 50c higher.
Iodide, USP, bots., dms ..... lb. 2.55 - 2.62
Lactate, edible, 50%, cbys., dms., works lb. .21½- —
60% cbys., dms., works lb. .26½- —
tech., 50%, cbys., dms., works, lb. 16¼- —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd ..... lb. .23 - —
tanks, dlvd ..... lb. 20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton.78.50 - —
l.c.l., ex whse ton.124.50 -129.50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher
Tetrahydrate, bbls., c.l., works. ton.199.50 - —
Metallic, bricks, 14,000-lb. lots or more, works lb. .17 - .19
less than 14,000-lb. lots, works. lb. .175 - .195
tanks, works ..... lb. .16 - —
Metanilate, bbls. frt. alld .... lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.10 - —
l.c.l., works ..... 100 lbs. 5.45 - 7.35
dms., c.l. ..... 100 lbs. 5.50 - —
l.c.l. ..... 100 lbs. 5.85 - 7.75
Pentahydrate, bgs., c.l., works. 100 lbs. 4.10 - —
l.c.l., works ..... 100 lbs. 4.45 - 6.35
dms., c.l., works ..... 100 lbs. 4.50 - —
l.c.l., works ..... 100 lbs. 5.10 - 5.85
Molybdate, bbls., cbys., works. lb. .85 - .95
anhd., cryst., dms., works lb. .70 - —
powd., dms., works ..... lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls. ..... lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works. ton.47.00 - —
bulk, c.l., works ton.43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton.51.25 - —
bulk c.l., same basis ton.47.75 - —
Nitrite, USP, bbls., c.l., works, frt. equaled ..... lb. .08 - —
l.c.l., same basis ..... lb. .09½- —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works ..... 100 lbs. 6.35 - 6.75
hydrated, flake, bbls., c.l., works. 100 lbs. 5.25 - —
l.c.l., works ..... 100 lbs. 7.00 - —
Oxalate, 88% bgs., works..100 lbs.10.85 - —
Para-aminobenzoate (see sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate)
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½- —
l.c.l., same basis lb. 26½- .28½
pellets, bgs., c.l., same basis lb. .25 - —
l.c.l., same basis ..... lb. .26 - .28
powd., bgs., dms., c.l., same basis lb. .24 - —
l.c.l., same basis ..... lb. .25½- .32

Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.

Perborate, NF, tech., bgs., c.l., works lb. .173 - —
l.c.l., works ..... lb. .178 - —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1860- —
l.c.l. same basis ..... lb. .1910- .1960
Phenolsulfonate, USP IX, gran., dms lb. .44 - .45
powd., dms ..... lb. .47 - .48

LOWER COST?

DRYMET—*anhydrous* sodium metasilicate—provides *more* detergent power per pound and more *real* power per dollar.

Got a Detergent Compounding Problem?

DRYMET

WILL HELP YOU SOLVE IT—

and COWLES Know-How will Help, too

BETTER DETERGENCY?

DRYMET puts more genuine colloidal punch into your cleaning compounds. More soil-loosening. More soil-dispersing action.

- Years of diversified experience in detergent manufacture—
- Well equipped, expertly staffed detergent research laboratories—
- Available to help you use DRYMET more effectively

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- Chemical and physical Properties of DRYMET
- Recommended Detergent Formulations with DRYMET
- Individual suggestions for improving your products

pH CONTROL?

DRYMET buffers alkali hydroxides, carbonates, phosphates, soaps, synthetics. Pegs the pH were you want it.

Cowles CHEMICAL COMPANY

7018 Euclid Ave. • Cleveland 3, Ohio

Sodium phosphate, dibasic, anhyd., bgs., c.l., frt. equald . . 100 lbs. 7.45 - —
t.c.l. works 100 lbs. 7.85 - —
USP dried powd., bgs., dms., works lb. .19 - .20½
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
t.c.l. frt. equald 100 lbs 8.90 - —
duohydrate, bgs., c.l., frt. equald 100 lbs 7.95 - —
t.c.l. frt. equald.100 lbs. 7.25 - —
tribasic anhyd., bgs., c.l., t.l., frt. equald 100 lbs. 8.45 - —
t.c.l., frt. equald 100 lbs. 8.85 - —
cryst., bgs., c.l., t.l., frt. equald 100 lbs. 4.20 - —
t.c.l., frt. equald 100 lbs. 4.60 - —

Sodium phosphates in dms., 60c. higher than bgs

Prussiate, yellow (see sodium ferrocyanide)

Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs.10.75 - —
ferric dms, 1,500-lb lots, works lb. .31 - —
smaller lots, works lb. .32 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.37½- —
t.c.l., frt. equald 100 lbs. 7.77½- —

Salicylate, USP, dms. . . . . lb. .68 - .71

Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
t.c.l., dlvd., zone 1 . . 100 lbs. 3.85 - 4.10
zone 2 . . . . . 100 lbs. 4.10 - 4.35
zone 3 . . . . . 100 lbs. 4.40 - 4.65
zone 4 . . . . . 100 lbs. 5.10 - 5.35

Sesquisilicate, hydrated, bgs., c.l., zone 1, dlvd ton.120.00 - —
t.c.l. works . . . . . 100 lbs. 4.95 5.35
dms., c.l., works . . . . . 100 lbs. 5.00 - —
t.c.l., works . . . . . 100 lbs. 5.35 5.75

Sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. and Va.; Ala., La. and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt., in which there are special county zones: Davenport, Ia. and St. Louis. (2) Ark. E. of 93° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

Silicate, liq., 40° Be., 1:3.2, turbid, dms., c.l., works 100 lbs. 1.35 - —
t.c.l. works . . 100 lbs. 1.70 - 2.20
tanks, works 100 lbs 1.00 - —
47° Be., turbid, 1:2.9, dms., c.l., works 100 lbs. 1.95 - —
t.c.l. dms., works. 100 lbs. 2.55 - 2.80
tanks, works . . . 100 lbs. 1.60 - —
52° Be., turbid, 1:2.4, dms., c.l., works 100 lbs. 2.30 - —
t.c.l., works . . . . 100 lbs. 2.65 - 3.15
tanks, works 100 lbs. 1.95 - —
solid, 1:3.2, bgs., works ton.57.50 - —

Silicofluoride, bgs., c.l., works lb. .07 - —
t.c.l. works lb. .07 08

Sodium silicofluoride in dms., 4-10c higher

Stannate, dms., works, frt. alld. E lb. .562 - .616

Sulfa drugs (see Sulfa name)

Sulfanilate, bbls., works . . . . lb. .22 - —

Sulfate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., dlvd., E ton.52.00 - —
detergent grade, bgs., c.l., works ton.34.00 - —
rayon grade, bgs., c.l., works. ton.31.00 - —
USP, cryst., fib, dms . . . lb. .17½ .18
gran., fib, dms . . . . . lb. .17½ 18

Sulfide, flake, dms., c.l., works, E., frt. equald lb. .05¼- —
t.c.l., same basis lb. .05¾- —
fused, bbls, c.l., works, E., frt. equald lb. .04¾- —
t.c.l., same basis lb. .05¼- —

Sulfite, anhyd., bgs., c.l. . 100 lbs. 3.00 - —
t.c.l., same basis 100 lbs 3.50 - —
powd., bbls., c.l., works 100 lbs. 7.25 - —
t.c.l., works 100 lbs. 7.50 - —

Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06½- —
t.c.l., works . . . . . lb. .07 - —
liq., 40-44%, tanks, works, 100% basis . . ton.110.00 - —

Sulfocyanide, CP, (see Sodium thiocyanate).

Tetraborate (see Borax)

Tetrasulfide, liq., 46%, dms., c.l., works. lb. .03½- —
t.c.l., works lb. .04 - —

Thiocyanate, CP, dms . . . . . lb. .55 - .65
tech., anhyd., 1 ton lots or more, works lb. .317 - —
less than ton lot, works lb. .337 - —

Thiosulfate, NF, cryst., bbls. lb. .12½- —
tech. (see Sodium hyposulphite).

Titanate, ctns., c.l., works . . . lb. .10½- —
5-ton lots, works . . . . . lb. .10¾- —
1-ton or less, works . . . . . lb. .11 - —

Toluene sulfonate, dms., c.l., or t.l. lb. .38 - —
t.c.l. . . . . lb. .42 - —

Trichloracetate, 90%, 100-lb. dms., c.l., frt. alld. E lb. .37½- —
t.c.l., frt. adjusted, E . . lb. .39½- —
50 lb. dms., c.l., frt. alld. E. lb. .38 - —
t.c.l., frt. adjusted E . . . lb. .40 - —
10-lb. cns., c.l., frt. alld. E. lb. .44 - —
t.c.l., frt. adjusted E. . . . . lb. .46 - —

Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.

Tripolyphosphate, bgs., c.l., works, frt. equald . . 100 lbs. 7.72½- —
t.c.l. same basis . . . . . 100 lbs. 8.12½- —

Trisilicate, powd., 1:3.2, bgs., c.l., works . . 100 lbs. 8.65 - —
t.c.l., works . . . . . 100 lbs. 9.40 - 9.80
dms., c.l., works. . . . . 100 lbs. 9.05 - —
t.c.l., works . . . . . 100 lbs. 9.80 - 10.20

Tungstate, tech., kgs., dlvd. E lb. 1.80 - —

Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —

Sodium-carboxymethyl cellulose (see CMC).

Sodium-cinchophen (see Cinchophen-sodium).

Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
t.c.l., same basis . . . . . lb. .21½- —

Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more, works lb. .28 - —
smaller lots, same basis lb .30 - —

Solvent naphtha, coaltar, high flash, tanks, works gal. .31 - .35
petroleum (see Petroleum solvent, partial aromatic).

Sorbitan monostearate, fib. dms., 20,000-lb. lots, works . . . lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 - .39

Tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works lb .38 - .40

Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
1 to 5-ton lots, works . . . . . lb. .25 - .26

Sorbitol, powd., dms., 1- to 5-ton lots, works lb. .38 - .39
soln., coml., aqueous, dms., c.l., works lb. .24¼- —
ton lots, works lb .25 - —
smaller lots, works lb. .25¼- —
tanks, works lb .23¾- —

reg., 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾- —
smaller lots, works lb. .17 - —
tanks, works lb .15 - —

Soybean meal, 44%, bulk, Decatur ton.52.50 - —

protein, chemically isolated, bgs., c.l., works lb. .23 - —

mechanically refd., bgs., c.l., works lb. .06 - —

Sparteine sulfate, cns . . . . . oz. .80 - .85

Spearmint leaves, dom., nis . . . . . lb. .75 - —

Spruce extract, liq., reg., tanks, works lb. .01¾- —
powd., super, bgs., c.l., works. lb. .05¼- —
t.c.l. works . . . . . lb. .05½- —

Squill, white, bls . . . . . lb. .17 .19

powd., bbls, bxs . . . . . lb .18 .21

St. John's bread, edible bls lb. .13 .15

Stannic chloride, anhyd., dms., works lb. .776 - .786

Oxide, dms., dlvd. E . . . . . lb. 1.00 1.01

Stannous chloride, anhyd., dms., works lb. .836 - 1.055

Hydrous, cryst., dms., works lb. .781½- .791½

Sulfate, dms., works . . . . . lb. .953 - .973

Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.14 - —
t.c.l. . . . . 100 lbs. 7.29 - —

powd., paper bgs., c.l 100 lbs. 7.26 - —
t.c.l. . . . . 100 lbs. 7.41 - —

Prices for corn starch in cotton bags, 25c. per 100 lbs. higher.

Starch, potato, dom., Idaho, bgs., c.l., works lb. .06¾- —
Maine, bgs., c.l., works lb. .07 Nom.
t.c.l., spot . . . . . lb. .09 09½
Rice, bgs., t.c.l. . . . . lb. 15½ 16
Wheat, bgs lb. 0755 0780

Star root (see Helonias root).

Stargrass Root (see Aletris root)

Stavesacre seed, bgs lb. 60 61

Stearine oleo (see Oleostearine)

Stomach substance, not USP, 100-lb fib. dms lb. 2.80 - —

Stramonium leaves, bgs lb. 18 20

Streptomycin hydrochloride, bulk, gram, .07 - .09

Strontium bromide NF, cns, dms. lb. .77 78
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works . . . lb. .37 - —
tech., dms., works . . . . lb. .19 - —
Chromate, bbls., works . . . lb. .46 - —

Iodide, jars, 25-lb. lots . . . . . lb. 3.42 - —

Nitrate, bbls., c.l., works 100 lbs.11.00 - —
t.c.l. works 100 lbs.12.00 - —

Salicylate, NF, dms lb 1.65 - —

Sulfate, air floated, 90%, 325 mesh, bgs., works ton.56.70 - 66.15

Strophanthin, K, bbls oz.25.00 - 25.50
G. (see Ouabaine, USP).

Strophanthus seed, Kombi, biologically tested, bgs lb 3.50 3.75

Strychnine, NF, powd., cns., 1-oz. lots oz 1.10 —
Phosphate, NF, cns., 100-oz. lots oz 1.14 —
Sulfate, USP, cryst., cns., 25-oz. lots oz .96 —
powd., 100-oz. lots . . oz. .85 - —

Styrax, USP, cs . . . . . lb 78 80

Styrene monomer, polymer grade, 99½% dms., c.l., frt. equald. lb. 22¼ —
t.c.l., same basis lb 23¼ —
tanks, same basis lb 21 —

synthetic rubber grade, 99%, dms., c.l., frt. equald lb 19¼ —
t.c.l., same basis lb 20¼ —
tanks, same basis lb 18 —

Styrolyl acetate, bots lb 1.45 1.70

Sucrose, crude, bgs., works . . . lb. .0537- —
refd., white, bgs., refy., E lb. 0855- —

Octa-acetate, denaturing grade, 100-200-lbs, bgs, t.c.l. works. lb 76 —

Sugar, raw (see Sucrose, crude)

Sulfabenzamide, dms . . . . . lb 4.00 4.50
Sodium, dms . . . . . lb 4.10 4.60

Sulfacetamide, fib, dms . . . . . lb 4.00 4.20
Sodium, fib, dms . . . . . lb 5.00 5.20

Sulfadiazine, USP, microcrystals, dms lb.10.60 11.10
powd., dms lb.10.25 10.75

Sulfadiazine-sodium, USP, dms lb 11.25 11.75
microcrystals, dms. . . . lb 11.60 12.10

Sulfaguanidine, USP, dms lb 2.50 —

Sulfamerazine, USP, microcrystals lb 10.65 11.15

Sulfamerazine-sodium, USP, dms. lb 11.25 11.75

Sulfamethazine, microcrystals, dms. lb 8.90 9.40
powd., dms lb 8.50 9.00

Sulfanilamide, USP, 30-80 mesh, dms lb 1.40 1.60
microcrystals, dms lb 1.70 1.90
powd., dms . . . . . lb 1.30 1.50

Quinoxaline, veterinary, dms lb 6.40 6.75

Sulfapyridine, NF, powd, bots, tins lb 7.00 7.50

Sulfapyridine-sodium, monohydrate

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soda ash

BY DOW

Ready for your needs shortly . . .

A high-quality and uniform *soda ash* . . .

Produced by an exclusive new Dow process.

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THE DOW CHEMICAL COMPANY, Midland, Michigan

you can depend on DOW CHEMICALS

DOW

Sulfathiazole—Triethanolamine

dms lb 7.50 - 8.00
Sulfathiazole, USP, microcrystals, dms lb 2.85 - 3.00
powd., dms lb. 2.50 - 2.65
Sulfathiazole-sodium, USP, dms lb. 2.75 - 2.90
Sulfur, coml., flour, bgs., mines, 100 lbs. 2.30 - —
bbls. mines 100 lbs 3.05 - —
lump, bgs., mines 100 lbs 2.20 - —
bbls. mines 100 lbs 2.65 - —
export, f.o.b vessels, Gulf
crude, bulk, c.l., mines, contract, long-ton 26.50 - —
ports long-ton 31.00 -33.00
domestic and Canada, f.o.b vessel Gulf port long-ton 28.00 -29.50
refd., flowers, USP, bgs., mines, 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls. mines 100 lbs. 4.50 - —
lump bgs. mines 100 lbs 3.90 - —
rolls, bgs., mines 100 lbs 3.85 - —
bbls., mines 100 lns. 4.40 - —
salt block, bgs. mines 100 lbs. 3.50 - —
virgin block, bbls. mines 100 lbs. 3.45 - —
rubbermakers, coml., reg., bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs 3.55 - —
98 100% passing through 325 mesh, bgs. mines 100 lbs 4.50 - —
bbls. mines 100 lbs 3.65 - —
refd. bgs., mines 100 lbs 3.25 - —
bbls mines 100 lbs 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs 2.70 - —
bbls. mines 100 lbs 3.85 - —
10% pine tar, bgs., mines, 100 lbs 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .03¾- —
t.c.l. same basis lb. .04½- —
tanks, same basis lb. .03½- —
Dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration cyls., dlvd lb. .27 - —
Monochloride, 55-gal., dms., c.l., frt. equaled lb. .03¾- —
t.c.l. same basis lb. .04½- —
tank c. same basis lb. .03¼- —
Sumac leaves, 28%, bgs., ex-dock, ton. 132.00 - —
ground, bgs., ex-dock ton. 127.00 - —
Superphosphate, run-of-pile, under 22% a.p.a pulv., bulk, c.l., Balto. unit-ton. .88 - .91
Carteret, N. J unit-ton. .88 - .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.25 - —
t.c.l., same basis lb. 1.30 - 2.30
Isopropyl ester, dms., c.l., works, frt. equald lb. 1.30 - —
t.c.l., works lb. 1.35 - —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton. 32.00 -38.50
Vermont off color grd., bgs., c.l., works ton. 18.40 - —
t.c.l., works ton. 36.00 - —
Talc, dom., fibrous, New York, grd., bgs., c.l., works ton. 27.00 -32.00
t.c.l., works ton. 30.00 -35.00
99.5%, 325 mesh, bgs., c.l., works ton. 30.00 - —
t.c.l., works ton. 33.00 - —
99.95% micronized, bgs., works ton. 37.00 - —
Imp Canadian grd., bgs., c.l., mines ton. 20.00 -35.00
Tallow, edible, tanks, dlvd lb. .09¾- —
inedible, extra, tanks, dlvd lb. .07⅞- —
fancy, bleachable, tanks, dlvd. lb. .07⅞- —
guaranteed, dms., f.a.s. lb. .08⅛- —
No. 1, tanks, dlvd. lb. .06⅞- —
special tanks, dlvd. lb. .07⅛- —
sulfonated, 25%, bbls., l.c.l. lb. .08 - .08½
50%, bbls., l.c.l. lb. .09¼- .10
Tankage, animal feeding, 9-11% ammonia, bulk unit-ton. 5.00 - —
Chicago unit-ton. 6.00 - —
Tapioca flour, Brazilian, bgs., ex whse lb. .07¾- .08¼
Siamese, top grade, bgs., ex wse lb. .07½- .07¾
Tar acid oil, 15-18% dms., c.l., frt equald gal. .47 .49
t.c.l. same basis gal. .50 .51
tanks same basis gal. .39 —
25-28% dms c.l. same basis. gal. .54 .56
t.c.l. same basis gal. .57 .58
tanks, same basis gal. .46 —
30-33% dms. c.l. same basis. gal. .70 .72½
t.c.l. same basis gal. .73½ .74½
tanks, same basis gal. .62½ —
Coal (see Coaltar)
Tartar, emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
t.c.l. works lb. .25½- —
tanks, works lb. .22 —
Hydrate, NF, cryst., powd., fib. dms lb. .67½ .74
a-Terpineol, dms, t.c.l., dlvd E lb. .19 —
Terpineol, coml., dms., c.l., South. lb. .13½- —
t.c.l., South lb. .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime dms lb. .55 - .70
Propionate, dms. lb. 1.75 - 2.00
Terra alba, (see Gypsum).
Testosterone, USP, 100-gm. lots, bots gram. .70 - —
Propionate, USP, 100-gm. lots, bots gram. .68 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55 gal. dms., works lb. .20½- .21½
smaller dms., works lb. .23½ .25
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .61½- —
t.c.l., dlvd. E lb. .62½- —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .57½- —
t.c.l., dlvd. E lb. .58½- —
tanks, dlvd E lb. .56 - —
Tetrapotassium phosphate (see Potassium phosphate)
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb. 12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 8.00 -13.00
Theobromine, NF, fib. dms lb. 4.00 - —
And sodium acetate, USP, fib. dms lb. 4.20 - —
Sodio-Salicylate, NF, fib. dms lb. 3.50 - —
Theophylline, anyhd. or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo. 80.00 - —
Mononitrate, USP, fib. dms kilo. 80.00 - —
Thiocarbanilide, dms., ton lots lb. .72 - —
less tons lots lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., dms., c.l., works, lb. .36 - —
t.c.l., works lb. .38 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots kilo. 450.00 -500.00
Thyme leaves, French, bgs lb. .20 - —
Spanish, bgs lb. .09 - —
Thymol fib. dms lb. 2.50 - 2.65
Iodide, NF, dms lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous)
Metal (straits) lb. .97 - —
Oxide (see Stannic oxide)
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous)
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd lb. .22½- —
t.c.l., dlvd. lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
t.c.l., dlvd. lb. .23½- —
reg., bgs., c.l., dlvd lb. .22½- —
t.c.l., dlvd lb. .23½- —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla. ton. 120.00 - —
Niagara Falls, N. Y., c.l., ton. 137.50 - —
5-ton lots ton. 142.50 - —
ton lots, c.l. ton. 147.50 - —
Rutile, nonchalking, bgs., c.l., dlvd. E lb. .24½- —
t.c.l. dlvd. E lb. .25½- —
Milled titanium dioxide $7.50 per ton higher.
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08¾- —
t.c.l. dlvd lb. .09¾- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
t.c.l., works lb. .43¾- —
tanks, works lb. .39¾- —
dl-a-Tocopherol, bots kilo. 149.65 - —
Acetate, bots kilo. 136.00 - —
o-Tolidine base, dist., kgs lb. 1.30 - —
Tolu balsam, cns. lb. 4.25 - 4.50
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powd. dms., works lb. .70 - —
solid, dms., frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
t.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
t.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld. lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago dist gal. .35 - —
Cleveland dist. gal. .32 - —
Geneva, Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .32 - —
Middletown, Ohio gal. .33½- —
Minnequa, Colo. gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist. gal. .32 - —
Sparrow's Point, Md. gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32 - —
petroleum, indust., 2° tanks, works:—Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence R. I. gal. .35 - —
Wood River Ill. gal. .25 - —
2-4 Tolylenediamine, cryst., fib. dms., frt. alld lb. .94 - —
powd., fib. dms., same basis lb. 1.00 - —
Tonka beans, Angostura, cks lb. 1.65 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .20 - —
l.c.l., l.t.l., works lb. .26 —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .42 - —
l.c.l., frt. alld. E. of Denver, lb. .43 - —
tanks, frt. alld. E. of Denver. lb. .40 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l. same basis lb. .53 - —
tanks, same basis lb. .50 - —
Tributylamine, dms., c.l., works lb. .67 - —
l.c.l., same basis lb. .68 - —
tanks, same basis lb. .65 - —
Trichlorobenzene, dms., c.l., works, frt. alld. E lb. .14½- —
l.c.l., frt. alld. E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., of t.l., works, frt. equald lb. .11¼- —
l.c.l., dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10¼- —
Trichloroethane, dms., c.l., works. lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l. dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —
petroleum, dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .24 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22 - —

Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —
Triethyl citrate, refd., tech., nonret. dms., c.l., frt. alld. E. of Denver lb. .45¾ - —
l.c.l., frt alld. E. of Denver, lb. .46¾ - —
tanks, frt. alld. E. of Denver.. lb. .43¾ - —
Phosphate, dms., c.l., works lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethylene glycol, dms., c.l., dlvd. E. lb. .20½ - —
l.c.l., same basis lb. .21½ - —
tanks, same basis lb. .18½ - —
Triethylenetetramine, dms. c.l., dlvd E lb. .48½ - —
l.c.l., dlvd. E lb. .49½ - —
tanks, dlvd. E lb. .47 - —
Tri-isopropanolamine, dms., c.l., dlvd. E lb. .22¾ - —
l.c.l., dlvd. E lb. .23¾ - —
tanks, dlvd. E lb. .20¾ - —
Trimethylamine, 25-30% soln., dms., c.l., works, frt. equald., 100% basis lb .42 - —
l.c.l., works, frt. equald, 100% basis lb. .42½ - —
tanks, works, frt. equald, 100% basis lb .33 - —
Trioxane, pure, dms., c.l., t.l., dlvd. E lb. .50 - —
l.c.l., dms., dlvd. E lb. .51½ - —
Tripentaerythritol bgs. l.c.l., works, lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld E lb. .20½ - —
l.c.l., frt. alld. E lb. .21½ - —
Prices 1c. per lb. higher in West.
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:75 dms., works lb. 6.25 - —
dl-Tryptophane, fib. ctns., works, kilo.165.00 - —
Tungsten metal, powd., 98.8% dms., dlvd lb. 4.35 - 4.40
Turpentine, gum (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram .75 - .85

U

Unicorn root, false (see Helonias root).
True (see Aletris root)
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton.120.00 - —
l.c.l., dlvd. E, ex whse.ton.140.00 - —
45% N, bgs., c.l., (30 tons), dlvd. E ton.105.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va ton.126.00 - —
C grade, tankcars, same basis ton.124.50 - —
37 grade tankcars, same basis ton.153.00 - —
Urethane, USP, dms. lb. 1.50 - —
Uva ursi leaves, bls. lb. .12 - .14

V

Valerian root, Belgian, bgs. lb. .38 - .40
dl-Valine, dms., works lb.21.00 -27.50
Valonia beards, 40-42% tannin, bgs., exdock ton.73.00 - —
cups, 28-30% tannin, bgs., exdock ton.50.00 - —
extract, powd., 63% tannin, bgs., ex-dock, duty extra lb. .07¾ - —
Vanadium pentoxide tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins lb. 6.50 - —
Mexican, cuts, tins lb. 7.25 Nom.
whole, tins lb. 7.50 - —
Tahiti, cs. lb. 6.00 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots, lb. 6.50 - 6.75
smaller lots lb. 6.90 - 7.25
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½ - —
l.c.l., dlvd. E lb. .19½ - —
tankcars, dlvd. E lb. .16½ - —
tanktrucks, dlvd. E lb. .17½ - —
n-Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, tanks, frt. equald lb. .10½ - —
Ether, USP, anesthesia, bots., 50 c.c., hospitals, bot 1.12 - —
75 c.s. bot. 1.56 - —
Ethyl ether, tech., dms., c.l., works. lb. .26 - —
l.c.l., works lb. .28 - —
tanks, works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).

2-Vinylpyridine, dms., works lb. 1.40 - 1.5.
Vinyltoluene, dms., c.l., works lb. .20¼ - —
l.c.l., works lb. .21¼ - —
tanks, works lb. .19 - —
Viosterol, in acid, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in nat. vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02 - .04¾
lots of 1 billion USP units. 1,000,000 units. .025 .05¼
lots of less than 1 billion USP units, 1,000,000 units. .03 - .05¾
Vitamin A acetate, syn., crystalline, beads, 500,000 A units per gram gram. .07¼ - —
dry, 500,000 units per gram kilo lots kilo.67.50 - —
Vitamin A acetate, dry, 325,000 units per gram, same basis, kilo.43.88 - —
250,000 units per gram, same basis kilo.33.75 - —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
liq., in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .10 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
B, (see Thiamine hydrochloride).
B_2, (see Riboflavin).
B_6 complex, natural (see Rice bran concentrate and Yeast).
B_{12}, crystalline, 1-gram or 5-gram vials gram.245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram 185.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver, Calciferol and Viosterol).
D_2, dry, 850,000 units per gram, kilo lots kilo.42.50 - —
less than kilo lots kilo.45.00 - —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin)
K, Active (see Menadione).
K_1, 25 gram bots gram 4.50 - —
Violet methyl toner (see Blue methylviolet toner
V.M.&P. naphtha (see Petroleum naphtha).

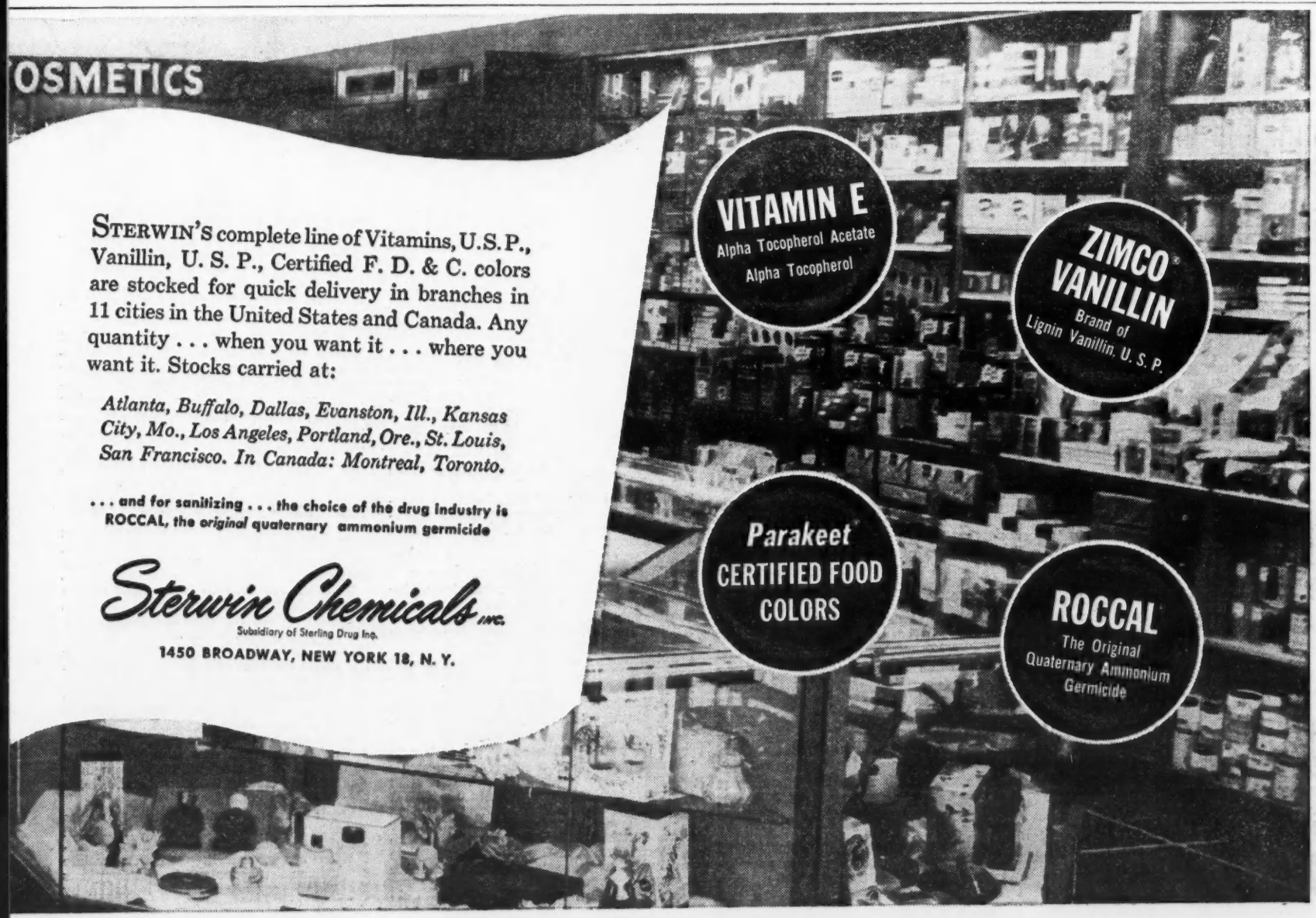
W

Wahoo root, bark, bls lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 - —
25-49-lb. lots, N. Y. or Chicago lb. 2.05 - —
5-24-lb. lots, ctns., N. Y. or Chicago lb. 2.15 - —
Wattle bark, fair average, African, bales, ex dock ton.99.00 - —
merchantable, bales, ex dock ton.95.00 - —
extract, liq., 35% tannin, bbls lb. .09¾ - .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09¾ - —
S. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
Wax, amorph. (see Wax microcrystalline).
Bayberry, bgs., spot lb. .40 - .43
Bees, crude, African, bgs lb. .64 - .65
Brazilian, bgs. lb. .67 Nom.
Central American, bgs lb. .64 65
Chilean, bgs. lb. .67 Nom.
refd., USP, bleached, white bricks lb. .74 - .76
slabs lb. .73 - .75
yellow, bricks lb. .67 - .68
slabs lb. .66 - .67
Candelilla, crude, bgs lb. .62 - .64
refd., bgs lb. .63 .65
Powdered candelilla, 20 mesh, 7c. per lb. higher. 80 mesh, 7c.; 100-200 mesh, 8c.
Carnauba, chalky, bgs., ton lots. lb. .53 Nom.
North country No. 2, bgs., ton lots lb. .66 - .72
No. 3, Ceara, crude, bgs., ton lots lb. .57 - .58

Triethylamine—Witch Hazel Leaves

Wax, carnauba, north country, No. 3, refd., pure, bgs., ton lots lb. .65 - .67
tech., bgs., ton lots lb. .62 - .64
Parnahyba, crude, bgs., ton lots lb. .59 - .60
refd., bgs., ton lots lb. .66 - .68
yellow, No. 1, Ceara, bgs., ton lots lb. .97 - .99
Parnahyba, bgs., ton lots. lots lb. 1.01 - 1.02
Powdered carnauba wax price differentials same as powdered candelilla
Japan, bgs lb. .45 - —
Microcrystalline, 170-175°F., m.p. ASTM, penetration 15-20 ctns., 20.000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis. lb. 14 15
black, ctns., 20,000 lbs., same basis lb. .11½ - .12⅛
smaller lots, same basis. lb. 12½ 13⅛
white, ctns. 20,000 lbs. same basis lb. 24 25
smaller lots, same basis. lb 25 26
180°-185°F. m.p., ASTM, penetration, 7-11; amber, ctns., 20,000-lb. lots, same basis. lb. .16 - —
smaller lots, same basis. lb. 17 —
black, ctns., 20,000 lbs., same basis lb. .14⅛ —
smaller lots, same basis. lb. 15⅛ —
white, ctns., 20,000 lbs., same basis lb. .27 - —
smaller lots, same basis. lb. 28 - —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis. lb. 20½ —
black, ctns. 20,000 lbs., same basis lb. .18 —
smaller lots, same basis. lb. 18½ —
white, ctns., 20,000 lbs., same basis lb. 33½ —
smaller lots, same basis. lb. 34½ —
Montan, dom., refd., bgs lb. .30 - .32
imp., crude, Bohemian, bgs lb. No prices.
German, bgs. lb No prices.
Ouricury, refd., pure, bgs lb. .95 97
tech., bgs lb. 85 87
Paraffin (see P)
Spermaceti, blocks, cs. lb. 25½ 31
cakes, cs lb. 26½ 32
Sugar cane, dom., refd., slabs, works lb. 65 75
spot lb. 67¼ - 72¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. 18 19
White precipitate, USP, powd. dms. lb 6.55 - —
Whiting (see Calcium carbonate)
Wild cherry bark, thin, nat., bls. lb. 18 19
rossed, bls lb 19 21
Witch hazel bark, bls lb 16 17
leaves, bls. lb 20 21

—Continued on page 39



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For the Improvement of Congress

The picture of congressional bewilderment given in the first "Washington Talks It Over" item on this page last week was not in the least overdrawn. As one congressman recently put it, each member, because of a multitude of extraneous demands, "finds his time spread thin . . . and may be forced to vote in the dark on matters that properly should have received more study . . . We cannot avoid voting on a wide variety of issues on which we possess no specialized knowledge." He feels that "if they could be freed of some of their extra duties, they might be able to give more time to their chief responsibility—legislation."

In a recent message to his constituents by way of local newspapers, that congressman said:—

> There is little doubt that in many respects congress is still an inefficient body. Often it operates unnecessarily slowly. There is duplication of work between its committees. Perhaps there could be more coordination between the house and the senate. Perhaps party conferences should be strengthened.

In that opinion, the congressman has set out to get a study of the operations of congress along the lines of the Hoover commission's work on the executive side. He has introduced a bill (house concurrent resolution 21) to establish a joint committee with such a purpose, "charged with the duty of making recommendations for improving congressional procedures."

If any movement can keep congress at its legislative task and reduce that task to something less than the more than ten thousand bills introduced during the less than two hundred session days this year—and get more necessary legislation passed—it will be worth all that it may cost. If it will get to the bottom of things and reduce the membership of the house by at least 50 percent, it really would contribute helpfully in the responsibilities of government.

Because the movement must have the approval of congress, it is quite doubtful that it will result in anything more than a temporary high-sounding, low-doing bit of change with no more real effect than that put through ten years ago. And insofar as the longsuffering public is concerned there is little — yes, practically nothing—that can be done about it.

Label Warnings Needed

The necessity of adequately informative cautionary labeling of commonly used household products which are in any respect potentially toxic or otherwise hazardous has long been emphasized from a number of angles of observation. There is still much to be done in that direction.

That need got additional clear emphasis in the past few weeks from separate news items on the fatal asphyxiation of an adult and a young child by the fumes of cleaning fluid composed more or less of carbon tetrachloride. The news items did not present information on the manner in which the fluids were labeled. At least the majority of such preparations do have a warning on the label. All too often it is not adequately conspicuous in type, construction, or location. The circumstances in the recent cases indicated that neither the woman victim nor the father of the child had been adequately warned of the fume hazard.

It is several decades since it was discovered that carbon tetrachloride is not a safe cleansing fluid for use in hair dressing and such use was prohibited. There are conditions under which its use in any manner is at least just as hazardous. The answer, perhaps, is not yet that its use in any such manner should be prohibited. It is not too soon, however, to insist that the labeling makes it plain to even the most unobservant user that the fumes of carbon tetrachloride—it need not be named—cannot be inhaled with safety, and that retailers of such products see to it that purchasers are fully informed in that respect.

That insistance is an imperative need with respect of many products in common use in and about the household by persons to whom the names of ingredients convey no warning of potential hazardousness. No better job of public relations can be done by any provider of such products than that of seeing that all users have adequate warning on all points at all times. It is highly desirable that they do not have to get such warning from health and welfare groups.

Gas from Farm Waste

Something new in the way of farm chemurgy has come out in France. Although it is, as was commonly said by critical chemists of many of the chemurgic proposals in this country, more physical than chemical, the new idea has an appeal for those who desire to provide the farmer with what he needs far more than hints on how to increase production; that is, something in the direction of increased consumption of what he already produces or is in some way supplied with beyond his needs.

The new French idea has to do with the long-perplexing problem of what to do with farm wastes, a problem which has been aggravated by the replacing of animal power on the farm with mechanical. It is directed to the making of combustible gas from farm waste—straw, leaves, and manure.

The idea is being promoted as a project in France by a group, including engineers, which is reported to be constructing plants in villages and on farms. The plants consist basically of concrete or metal tanks of a capacity of 25 cubic-meters, equipped with heating apparatus and thermic insulation, in which the waste is decomposed, apparently at temperatures of from 15 to 35 degrees centigrade. Each tank is described as having a balloon-type gasometer, a thermometer, and manometers, and to be equipped for the mechanical removal of the degassed residue, which is said to be "400 percent more efficient as fertilizer than manure in fermentation." Iron, aluminum, or plastic pipe is attached to carry the gas for use in "cooking, heating, lighting, preparing stockfeed, and as fuel for motors."

It would seem that the application of this idea would be usefully supplementary to farm electrification systems. It might be adaptable to the heating and lighting of lumber camps where horses are still able to compete successfully with mechanical power. It has one good point lacking in many chemurgic proposals — it takes the plant to the farm.

There would seem to be a job for chemists in connection with this "chemurgic" scheme in some such areas as the determination of the effects of various herbicides on the properties of weeds as raw materials for gasmaking. If weeds are thus to be utilized it may be necessary to return to physical harvesting methods. Another physical contribution might come by way of the equipping of the farmer's combine with a dingbat which will pull up all the stubble and free it from adherent soil so that it too may go into the gasmaker.

Textile Tribulations

The textile industry of this country appears to be in a puzzled, as well as puzzling, situation if one can judge from the calls for conferences on wool and on cotton and the perturbation over lowered tariffs on foreign materials, along with the news that the textile companies are running financially at least not far below today's rather profitable general industrial level and that unfilled orders on the books of spinners of carded cotton yarns at the end of June were 25 percent above last year's in terms of weeks' production. It does not help toward clarification to read that the new adviser in Japan for the International Cooperation Administration came out of the synthetic fiber field and that one of the big textile concerns has sent representatives to Japan to appraise textile conditions there in anticipation of what is quite likely to result from the approaching cuts in tariff.

So, it is no wonder that one of the latest bills introduced in congress was a house concurrent resolution (No. 195) designed to provide a study of textile problems. Those problems are not by any means all of a sort that might be solved by any of the variety of means which congress has come to apply to all manner of problems.

Several months ago, the textile industry was urged to study the consumer—good advice for any industry. Maybe it did. But, the "charcoal-gray" edict on fabrics for men's clothing did not so connote. Neither does the big talk of such fabrics' going all over the spectrum in pastel patterning after the trend in automobile colors, nor the fact that the pockets in trousers are made of some fabric about as durable as cheesecloth.

The textile industry has its troubles. Its 64-million-dollar question is why, in the merchandising of clothing and various other textile products, is the push and the praise—and the price—put on foreign materals? With all their versatility, the federal legislators cannot provide the answer to that question.

Washington Talks It Over

By Ralph L. Cherry
Chief, OPD Washington Bureau

The Small Business Administration came as close to coming a cropper at the hands of congress as has any government agency in recent years. Congress got around to renewing the life of the agency only a few hours before it adjourned the session sine die August 2. As it was, the agency ceased to exist legally for about forty-eight hours because by the terms of the continuing resolution passed last June it could continue its functions only through July 31.

What delayed congress in extending the life of SBA for so long was a behind-the-scenes struggle between the conservatives and liberals over broadening the agency's authority to make easy and low-interest rate loans to small enterprises. In the final windup the conservatives won out and the two-year extension voted contained the same lending authority that is in existing law.

The liberals did win some concessions, however. The ceiling on individual loans was raised from $150,000 to $250,000 and provisions were included which will permit the pooling of interests so that small business concerns can get together and if they meet with certain other requirements, can qualify for even larger loans.

Although the making of loans to small firms by SBA was slow in getting started, they have picked up in momentum in the past several years. As of June 30, the agency had approved 1,645 business loans for a total of $83,714,000. The average size of the loan was $51,404 and approximately 88 percent were made to manufacturing concerns employing fewer than 100 persons.

More GATT Tariff Concessions

Readjustment of tariff schedules under the General Agreement on Tariffs and Trade isn't over yet. Nine nations have notified the State department that they want to renegotiate tariff concessions granted under article 28 of the general agreement and will meet with the department later this summer. The nine are Cuba, India, Netherlands, Nicaragua, Pakistan, Sweden, Austria, France and Finland.

Under article 28 a country wishing to withdraw or modify a concession must try to reach some basis of agreement with the other contracting parties to the GATT. This usually takes the form of granting of new concessions as compensation for those withdrawn. In the discussions to go forward shortly, a few chemicals will be involved, but none with any considerable amount of export trade.

At the ninth session of the GATT held earlier this year at Geneva, the contracting parties extended the firm life of tariff concessions from July 2, 1955, to December 31, 1957, but allowed the renegotiation of individual tariff concessions through September, 1955.

Industry Dispersion Plans

Although the international tensions have eased and a period of peaceful relations with the Communist countries appears in the offing as a result of the "meeting at the summit," there is no let-up in the Administration's desire for continued dispersion of industry as a protection against aerial attack.

The wish is for congress to establish a Hoover type commission to make a full and complete study of the dispersal problem. The recommendation for such action was made early during the session by ODM Director Arthur Flemming, and was repeated a few days ago in a letter to Sen. Alexander Wiley of Wisconsin.

A number of bills were introduced at various times during the session to establish a civil defense commission to study dispersion, but they never got beyond the introduction stage. Now with "peace" looming bigger and bigger in the international scene, it is probably going to be even harder to get congress to act favorably on the commission idea, but Mr. Flemming is going to keep trying.

New Colors for Mail Boxes

The paint industry can look to the Post Office Department for a good sized market for its reds, whites and blues. Uncle Sam's large, upright, olive-drab street letter boxes are soon to be a thing of the past. They will blossom out in America's patriotic colors, just as have some of the department's mail trucks.

It is more than just patriotism that is bringing on the change in the department's color scheme. "Many of the things we wear, the cars we ride in, even the houses in which we live are following the trend to more cheerful colors," Postmaster General Summerfield notes. "The Post Office Department, first with its glorified new trucks, and now with these brightly colored and clearly visible letter boxes, is following the color trend."

Besides that, the change in colors has a utility value. The "new paint look" will be of assistance to patrons in locating collection boxes, and help to differentiate them from fire boxes and trash recepticals for which they are so often mistaken by some of our country folk.

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Heavy Chemicals

Price advances stirred the copper sulfate market last week for the third time this year, as producers raised prices on the basis of an increased cost in labor following settlement of a strike. Aluminum metal was also higher following the outcome of wage negotiations in the aluminum industry. Industrial ferric chloride moved higher, owing to an accumulation of production costs.

Mercury metal was again weaker, declining sharply. Selenium was still very short, with resale lots said to command between two and three times the primary price. Nickel stocks were also tight, with no relief seen for the near future. The alkalies showed no activity pricewise, but the market for a good many items was active, due in part to a strike in the midwest.

The phosphate strike continued at a number of plants in Florida, but producers of phosphate products were not too concerned about the current raw material supply position. While one producer of copper settled with the union last week, and an end to the lengthy copper strike was believed to be in sight, there was still no indication as to when the industry as a whole would be back at work. Meanwhile, stocks of copper and scrap continued to dwindle, and price boosts loomed in sight.

The American Paper and Pulp Association reported production for the week ended August 5 at 98.7 percent of theoretical capacity, as compared with the revised figure of 95.8 percent for the previous week and 92.0 percent for the corresponding week of last year.

The following figures compiled by the Bureau of Census show production of selected acids, in tons.

	May	April	Apr. '54
Acid, chromic	1,472	1,168	1,231
Hydrochloric from salt and acid	13,617	12,422	11,297
from chlorine and hydrogen	12,430	12,815	14,154
byproduct	43,615	34,029	37,819
Total	69,662	59,266	63,270
Hydrofluoric	5,586	5,465	4,321
Nitric	191,743	201,956	157,705
Phosphoric, from phosphorus	123,663	131,378	124,443
from phosphate rock	183,188	180,173	138,643
Total	306,851	311,551	263,086
Sulfuric, chamber	183,351	198,247	214,370
contact	1,189,392	1,140,868	963,503
spent (fortified)	73,581	67,575	66,006
Total (gross)	1,299,162	1,271,540	1,112,067

Acid, Hydrochloric—Demand for all grades of acid was said to be holding up well in the eastern part of the country, but in the south and southwest, byproduct acid manufacture far outstripped consumption. Interest was particularly active for water-white grades, which nevertheless remained in ample supply.

The steel and steel fabricating industries continued active over the week, resulting in large volume movements of acid in that direction. Other end uses also held up well. Prices in the New York area were judged steady.

Acid, Hydrofluoric — Government requirements continued to be a key factor in the market and was generally active. The petroleum industry maintained fairly steady call at lower levels for use in the manufacture of high octane gasoline.

Acid, Nitric—Inquiry held up well all through the end use pattern, as some industries were reported returning to work after midsummer vacation, inventory and equipment repair periods. Current high steel output played a major role in tonnage acid consumption.

Acid, Sulfuric—Consuming demand was active among many industries last week, and shipments of acid continued in large volume. The steel industry continued to operate at high levels. Production of ingots and castings last week was estimated at 2,278,000 tons, or 94.4 percent of capacity, compared with actual output of 2,190,000 tons the previous week, or 90.7 percent of capacity. Actual production one year ago was 1,527,000 tons or only 64 percent of 1954 capacity.

Aluminum Hydrate—Buying interest was well maintained for heavy hydrates. Supplies were ample. Prices were subject to possible revision in the future due to recent increases in aluminum metal.

Calcium Chloride—Replacement demand was fairly strong, although it was said by some producers that they had been able to catch up on shipments, whereas in previous weeks, deliveries had been running behind schedules.

Other producers reported that they were still running well behind on deliveries, due primarily to a strike at the works of a major calcium chloride producer, and in part to hot, dry weather in some sections which has contributed to heavy replacement demand.

Chlorine—The strike at one plant of a midwestern alkali producer continued last week, resulting in a tight market position for chlorine in that area. Supplies of chlorine were described as generally in close balance with inquiry, with the possible exception of the southeast, where stocks were more comfortable.

Stocks of chlorine gas at the end of May increased to 167 tons from 157 tons on hand at the end of April, according to the Bureau of Census. Liquid chlorine supplies at the end of May totaled 141,690 tons, as against 16,379 tons on hand at the end of April.

Copper Sulfate—Prices were increased due to higher labor costs resulting from settlement of a strike in the copper industry. CP sulfate was increased ¼c. per pound, newly listed at 19.4c. per pound, barrels, f.o.b. works. Crystal (99 percent) was raised 25c. per 100 pounds, newly quoted at $12.50 per hundred pounds, bags, carlots, f.o.b. works, freight equalized, and $13.25 to $13.75, less carlots, same basis, depending on quantity.

Monohydrated sulfate was increased 35c. per hundred pounds, and was priced at $20.10 per hundred pounds, bags, carlots, f.o.b. works, and $20.85 per 100 pounds, less carlots, same basis. Tribasic copper sulfate was increased 50c. across the board, and was scheduled at $26.75 per hundred pounds, bags, carlots, f.o.b. works, and $28.25 to $28.75 per hundred pounds, less carlots, same basis.

With the increases in sulfate, a producer also raised prices on copper carbonate. Material testing 55% Cu rose 50c. per hundred pounds, and was priced at 30½c. to 32c. per pound, bags, works, depending on quantity.

Ferric Chloride—Producers raised prices on spot for liquid 42 degree (37-45 percent) ferric chloride for sewage treatment. The new spot price for the material was quoted at $3.50 per 100 pounds, tankcars, freight equalized. The old price had been $3.20 per hundredweight.

While demand for sewage treatment from municipalities is normally about steady, producers reported that interesst had shown a sizable pickup during the forepart of the summer. Current demand was easier, however. Other grades of ferric chloride were shipped steadily against contract requirements, at unchanged prices of long standing.

The following figures compiled by the Bureau of Census show production figures for chlorine and alkalies, in tons.

	May	April	Apr. '54
Chlorine gas	294,847	236,158	247,890
liquid	166,396	146,378	132,130
Potash, caustic, liquid	8,526	7,981	7,282
solid	1,729	1,669	1,546
Soda ash, ammonia soda process, finished light	234,277	213,765	216,620
finished dense	169,388	135,208	159,739
natural	58,460	48,329	36,858
Soda, caustic, 68-74% liquid	48,449	44,380	48,099
other liquid	247,095	198,464	194,984
dry	41,010	35,422	44,690
elec.rolytic process liquid	295,602	236,311	250,296
dry	27,780	22,625	29,537
lime soda process liquid	40,952	41,955	37,477
dry	13,230	12,797	15,153
Sodium bicarbonate, crude	442,594	387,242	413,268
finished	8,886	9,114	8,579
Sulfate anhydrous (refd.)	23,413	23,286	19,446
Glauber's salt	14,304	13,163	10,086
Saltcake (crude, coml.)	57,181	53,809	55,323

Potash, Caustic—Demand was seasonal. Current production and supplies were well able to fill consumer requirements. Prices held steady and unchanged.

Potassium Carbonate—Buying interest

For Late Market Developments, See Page 4

Price Trends

Advanced

Aluminum, ingots, 1.2c. per lb.
pigs, 1c. per lb.
Copper carbonate, ½c. per lb.
Sulfate, CP, ¼c. per lb.
cryst., 99%, 25c. per 100 lbs.
monohydrate, 35c. per 100 lbs.
tribasic, 50c. per 100 lbs.
Ferric chloride, indust., 42° Be, 30c. per 100 lbs.

Reduced

Mercury, $6 per flk.
Potassium stannate, 0.4c. per lb.
Sodium stannate, 0.4c. per lb.
Stannic chloride, 0.5c. per lb.
Stannous chloride, anhyd., 0.6c. per lb.
hydrous, cryst. 0.5c. per lb.
Sulfate, 0.5c. per lb.
Tin, 1c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Aug. 8 1954
98.40	98.40	98.40	98.48

(For Current Prices see Page 9)

Carbide Unit's V.P.

Fred L. Shanklin has been appointed vice-president and general manager of the ore division of Union Carbide & Carbon Corporation, New York. Mr. Shanklin was appointed secretary and treasurer of Pyrofax Gas Corporation, a division of Union Carbide, in 1954 and in March of this year became manager of administration of the ore division of Union Carbide.

continued slow due to summer shutdowns in the glass industry. Stocks on hand were plentiful, and readily available for prompt shipment.

Soda Ash—Demand for light and dense ash was given strength by the strike at a midwestern producing plant. Some producers reported heavy production in order to fill needs of consumers in the strike-affected area. Light ash continued to move well to the aluminum and paper industries, while dense ash sold at routine levels to a number of outlets, including the glass industry.

Soda, Caustic—Market reports varied as to producer last week, depending on which company was affected by the strike in the midwest. Some sources reported that sales over the last few weeks had hit the midsummer doldrums, while others indicated that they were making more caustic than is normal at this time of year in order to fill the gap created by the dispute.

Sodium Chlorate—Looking back on the recently ended agricultural peak demand season, producers indicated that business had held up as well as last year's levels. Current business was judged seasonally average. The Bureau of Census reports that in May, production of sodium chlorate rose to 4,475 tons from the 4,205 tons produced in April, and 3,258 tons produced in May, 1954. Stocks in producers' hands May 31 declined to 3,563 tons from the 4,088 tons on hand at the end of April.

Sodium Sulfate—Stocks continued to mount, but producers did not show too much concern about inventories, pointing back to September, 1954, when supplies were dangerously low. It was felt that expanding kraft paper facilities

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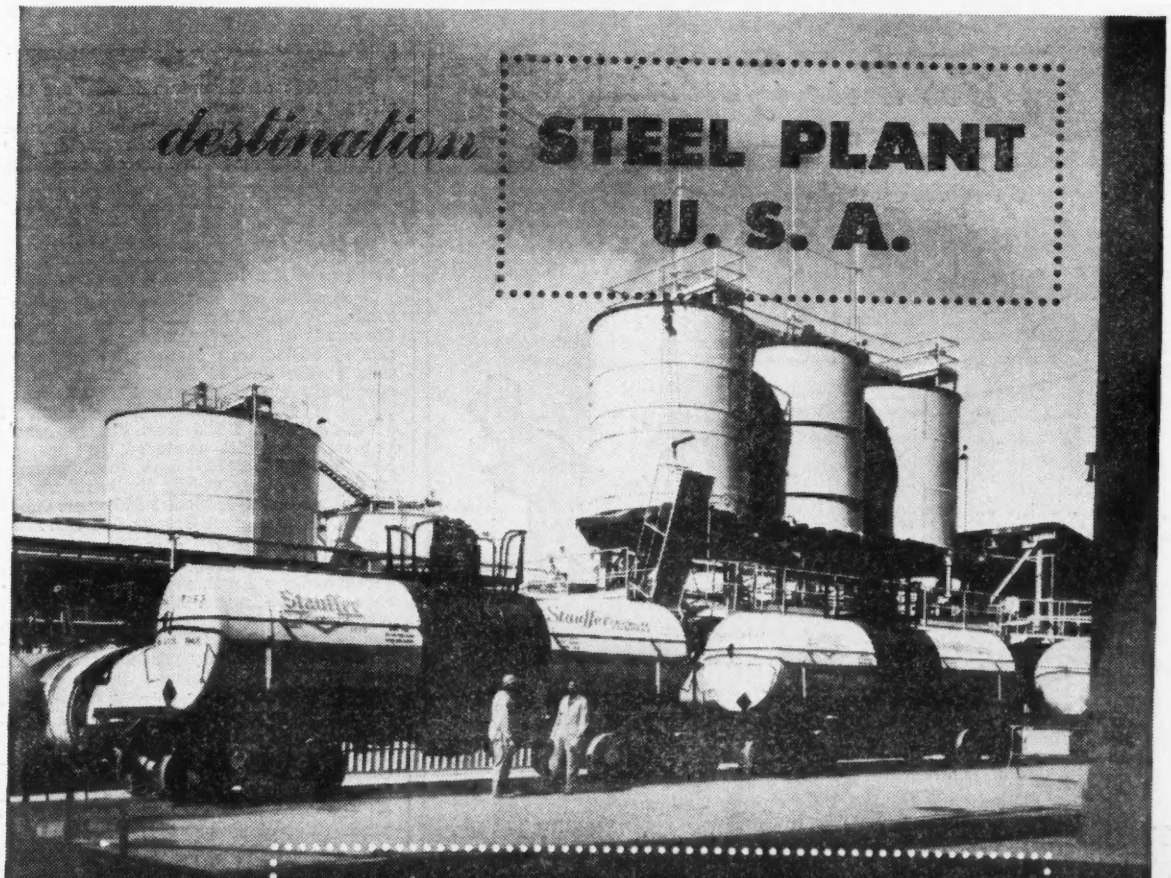

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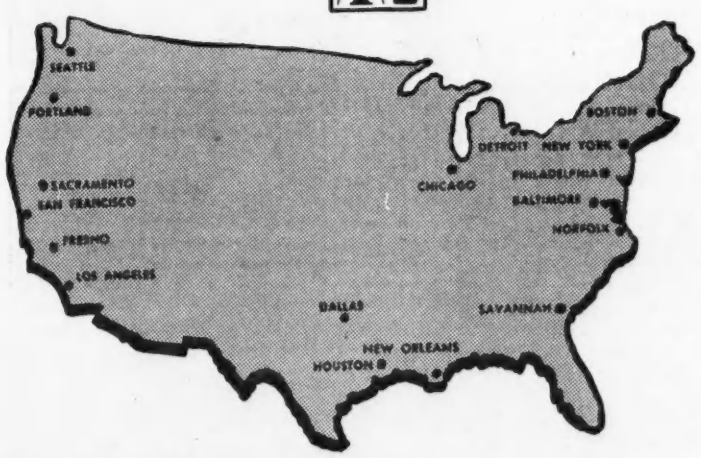

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would take up available output within the next months.

Tin Chemicals—Following reductions in straits tin, potassium stannate was reduced to 69.3c. to 75.9c. per pound; sodium stannate, 56.2c. to 61.6c. per pound; stannic chloride, 77.6c. to 78.6c.; anhydrous stannous chloride, 83.6c. to $1.055; hydrous crystals, 78½c. to 79½c. and stannous sulfate, 95.3c. to 97.3c. per pound.

Nonferrous Metals

Aluminum—Major producers raised pig and ingot prices last week. Aluminum pigs were raised 1c. per pound, newly listed at 22½c. per pound, carlots, freight allowed. Ingots were higher by 1.2c., quoted at 24.4c. per pound, same basis. The increase in price was brought about as a direct result of the outcome of wage negotiations between the union and the aluminum producers. The last previous price change took place during the week of January 24, 1955.

Chromium — Consumption of chromite during May dropped eight percent below April, according to the Bureau of Mines. Chromite consumed for metallurgical use (in the manufacture of ferrochromium, chromium metal, and other chromium alloys) decreased 8 percent, and refractory use (to make refractory bricks, cements, ramming mixtures and plastic mixes) dropped 14 percent; but chemical use (in the production of chromic acid and chrome oxide green) increased 14 percent over the previous month.

Producers of chromium ferroalloys use all types of chromite, including chemical and refractory grades. Metallurgical grade chromite (everything not refractory or chemical) consumed in May comprised 82 percent of the total; chemical 11 percent, and refractory 7 percent. Of the metallurgical grade, 64 percent had a Cr/Fe ratio of at least 3:1, 23 percent had less than 3:1 but at least 2:1 Cr/Fe ratio, and 13 percent had less than 2:1 Cr/Fe ratio.

Production of metallurgical products totaled 30,915 short tons, and stocks in the hands of producers at the end of May totaled 45,996 tons compared with 46,408 tons at the end of April. Production of chromium chemicals was 10,689 tons in terms of sodium bichromate equivalent, compared with 9,606 tons during April. Domestic chromite produced (shipped) in May totaled 12,126 short tons, natural weight. On a dry weight basis, shipments from California totaled 1,555 tons, Montana 9,504 tons, and Oregon 544 tons.

Total imports of chromite into the United States during May increased 65 percent above April, according to the Bureau of the Census. Metallurgical grade imports more than tripled the previous month's, and chemical grade rose 27 percent, while refractory grade decreased 28 percent.

Largest supplier of chromite was Turkey, shipping 43 percent of the total imports and 65 percent of all metallurgical ore. Other suppliers of metallurgical grade chrome ore were Rhodesia (31 percent), Cuba (3 percent), and India (1 percent). Of the refractory grade ore, the Philippines shipped 60 percent, Yugoslavia 14 percent, Union of South Africa 13 percent, Rhodesia 11 percent, and India the remaining 2 percent. All chemical grade ore came from the Union of South Africa.

Copper—The copper strike appeared to be heading toward settlement last week, as one company signed an agreement with the union and prepared to begin operations at mines and plants. However, the situation remained critical, as supplies were extremely short. Due to high premiums on copper and No. 2 scrap, brass mills were forced to raise prices on their products in order to offset the steady advances in raw material.

The primary spot copper price remained pegged at 36c., but there was strong feeling in the trade that with the settlement of wage negotiations, prices would rise. The London market remained far ahead of the American market, with metal hovering at around 45c. per pound, spot.

Magnesium — Production of primary magnesium during the second quarterly period of 1955 was 10,893 tons according to the Bureau of Mines. This was a decrease of 26 percent below the production in the first quarter. The base price of primary magnesium in standard 42-pound pig form remained at 28½c. per pound throughout the second quarterly period.

Exports of magnesium and products during the period included 3,125 tons of metal and alloys in crude form and scrap, and 79 tons of powder, ribbons and metal in semifabricated forms.

Mercury—Metal once again declined, after having remained on a shaky plateau the previous week. Mercury was listed at $254 to $258 per flask, spot.

Tin—The market continued to edge off from its earlier high level. Tin metal was offered at 97c. per pound, spot.

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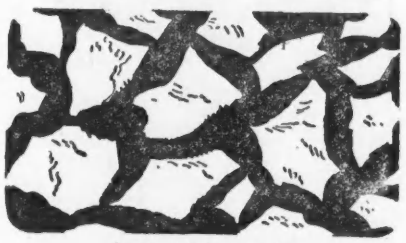
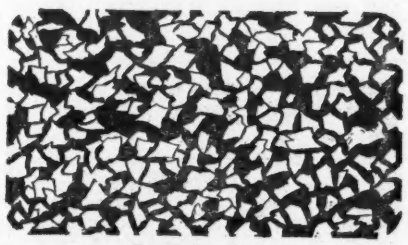
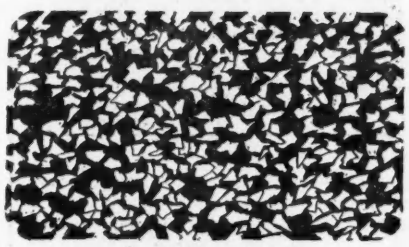

Standard flake, actual size


Fine flake, actual size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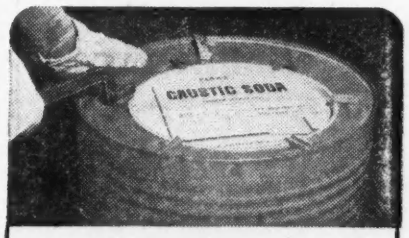

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DuPont Shifts Dr. Wells, Makes 4 Other Assignments

Dr. A. Judson Wells, an assistant research director for the film department of E. I. duPont de Nemours & Co. and director of the Yerkes research laboratory in Buffalo, N. Y., will move to Wilmington, Del., September 1 to devote his full time to work as assistant research director.

On the same date, Dr. Clement W. Theobald, who has been research manager at the laboratory, will succeed him as director there. In the meantime, Dr. Theobald will act as deputy director of the laboratory. Frederick W. Gander, a research supervisor ,has been named research manager to succeed Dr. Theobald.

In duPont's Grasselli chemicals department, Thomas J. Desmond has been appointed Chicago district sales manager. He succeeds W. James Latimore, who will move to Wilmington on special assignment.

Dr. Wells joined duPont in 1941, was named manager of the development section of the film departments' research division in 1950 and, in 1953, became director of the Yerkes laboratory. He was made an assistant research director for the film department earlier this year.

Dr. Theobald, with duPont since 1943, was made a research manager of the Yerkes laboratory in 1953. Mr. Gander, with the company for the past nine years, became a research supervisor for the Yerkes laboratory in 1953.

Mr. Desmond joined duPont in 1935 as a chemist at the Grasselli Works, Linden, N. J. He has been Boston district sales manager since 1951. Mr. Latimore, Chicago district sales manager since 1952, joined Grasselli in 1936.

Current Prices

—Continued from page 33

Wollastonite, fine, bgs., c.l., works	ton	39.50	—
l.c.l., ex whse	ton	56.00	—
medium, bgs., c.l., works	ton	27.00	—
l.c.l., ex whse	ton	44.00	—
Woolfat, crude (see Degras).			
USP (see Lanolin).			
Wormseed, American, bgs	lb.	.20	.25
Levant, bgs	lb.	4.25	4.50

X

Xylene (see Xylol).			
Xylenol, cryst., 38°-60°C., m.p., dms., l.c.l., works	lb.	.40	—
56°-58°C., dms., l.c.l., works, frt. equald	lb.	.30	—
45°-47°C., dms., c.l., same basis.	lb.	.212	—
l.c.l., same basis	lb.	.215	—
tanks, same basis	lb.	.199	—
fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis	gal.	.96	—
l.c.l., same basis	gal.	.99	—
tanks, same basis	gal.	.85	—
dry at or below 227°C., dms., c.l., same basis	gal.	1.11	—
l.c.l., same basis	gal.	1.14	—
tanks, same basis	gal.	1.00	—
Xylidines, mixed, dms., c.l., truckload, works	lb.	.39	—
l.c.l., same basis	lb.	.40	—
tanks, same basis	lb.	.38	—
Xylol, coaltar, indust., tanks, works, Bethlehem, Pa	gal.	.34	—
Birmingham district	gal.	.32	—
Chicago district	gal.	.35	—
Cleveland district	gal.	.34½	—
Geneva, Utah	gal.	.27	—
Johnstown, Pa.	gal.	.33	—
Lackawanna, N. Y.	gal.	.35	—

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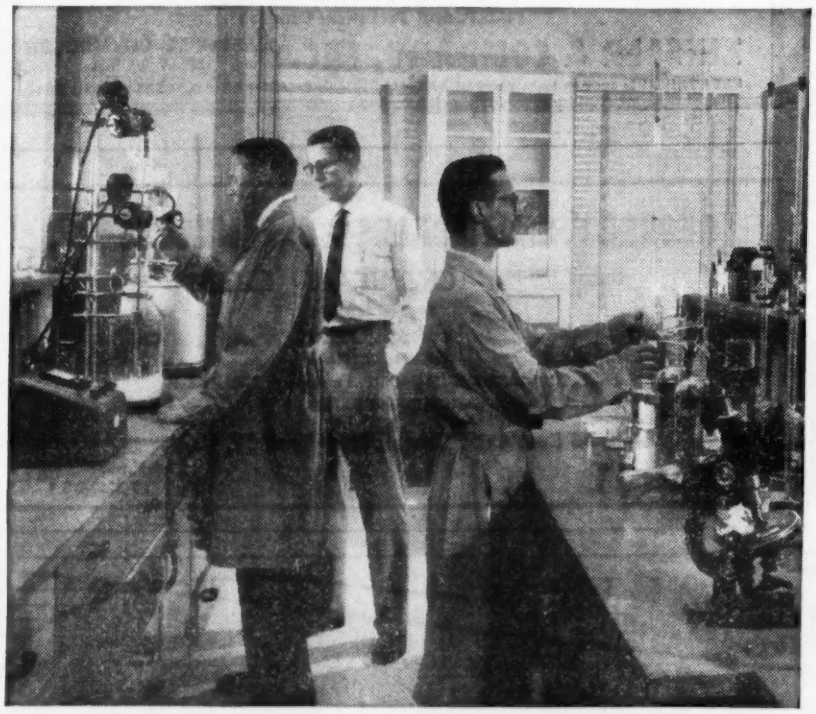

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Drug and Cosmetic	Hydro-Magma* Magnesium Hydroxide N.F. Magnesium Carbonate U.S.P. Magnesium Oxide U.S.P.
Chemical	Magnesium Oxide, Tech. Magnesium Hydroxide, Tech. Magnesium Carbonate, Tech.

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Pittsburgh district gal. .32 • —
Sparrows Point, Md. gal. .34 • —
Terre Haute, Ind. gal. .35 • —
Youngstown, O. gal. .32½- —
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Philadelphia, Pa. gal. .34 • —
Providence R. I. gal. .35 • —
Wood River, Ill. gal. .35 • —

Y

Yara yara, cns. lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 • —
90 Int'l B units per gram, 100-lb. dms lb. .52 • —
200 Int'l B units per gram, 100-lb. dms lb. .56 • —
300 Int'l B units per gram, 100-lb dms lb. .60 • —
Yellow, barium chromate, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island St. Louis St. Paul lb. .33 • —

Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.

Benzidine AAA, bbls., dlvd. lb. 2.00 • —
AAOT, bbls., dlvd. lb. 2.25 • —
Lightfast, bbls., dlvd. lb. 3.15 • —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.35 • —
Lithopone, all shades, bbls., frt. alld., E of Rockies lb. 1.15 • —

Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. of Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .32 • —

Dlvd. Ala., Fla., Ga., La. (Shreveport 1½c. higher); Miss., N. C., S. C., Penna., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Hansa 10 G, bbls., same basis as yellow, chrome lb. 2.15 • —
G pigment, bbls lb. 1.91 • —
Iron oxide, natural, French type, bgs., c.l., works lb. .05¼- —
Peruvian type, bgs., l.c.l lb. .038 • —
pure, bgs., c.l., works lb. .11 • —
l.c.l., works lb. .11¼- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 5.58 • —
smaller lots lb. 5.60 • —
Ocher (see Yellow, iron oxide, natural).
Zinc (chromate), bbls., dlvd. lb. .26 • —
basic, dlvd. lb. .31 • —
Yerba santa leaves, bls. lb. .40 • .42
Yohimbine hydrochloride, bots, tin. oz. 4.50 • —

Z

Zein, bgs., 36,000-lb. lots or more lb. .38 • —
1,000 to 36,000-lb. lots, works lb. .40 • —
smaller lots, works lb. .43 • —
Zinc acetate, NF VIII, dms. lb. .53 • —
tech., dms., works lb. .27 • —
Borate, bgs., c.l., dlvd. E lb. .192 • —
l.c.l. dlvd. E lb. .202 • —
Chloride, NF, gran., dms. lb. .42 • —
precipitated powd. dms lb. .26 • —
soln., 50%, dms., c.l., works. 100 lbs. 5.50 • —
l.c.l., works 100 lbs. 6.10 • —
tanks, works 100 lbs. 4.85 • —
tech., fused, dms., c.l., works. 100 lbs. 10.10 • —
l.c.l., works, dms. 100 lbs. 10.60 • —
gran., lib., dms., c.l., works 100 lbs. 10.85 • —
l.c.l., works 100 lbs. 11.35 • —
Chromate (see Yellow, zinc).
Cyanide kgs., 1,000-lb. lots or more, works lb. .523 • —
smaller lots, works lb. .543 • —
Dust, pigment, bbls., c.l., works. lb. .15¾- —
l.c.l., works lb. .16¾- —
Fluoride bbls. works lb. .49 .50
Hydrosulfite, dms., c.l., frt. alld lb. .21½- —
l.c.l. frt. alld lb. .22 • .37½
Metal, prime western slabs, E. St. Louis lb. .12½- —
New York lb. .13 • —
Naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½- —
10% Zn. dms. frt alld lb. .30 • —
Oxide, pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14 • —
l.c.l., same basis lb. .15 • —
leaded 25%, bgs., c.l., millsd, frt. alld. lb. .14½- —
l.c.l., same basis lb. .15½- —
50%, bgs., c.l., same basis lb. .14½- —
l.c.l., same basis lb. .15½- —
French process, coml., green seal, bgs., c.l., frt. alld. lb. .15¾- —
l.c.l., same basis lb. .16¾- —
red seal, bgs., c.l., same basis lb. .15¼- —
l.c.l., same basis lb. .16¼- —
white seal, bgs., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17¼- —
USP, ctns., c.l., frt. alld. lb. .17¼- —
l.c.l., same basis lb. .18¼- —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulfonate, NF, gran., dms. lb. .39 • —
powd., dms. lb. .42 • .49
Resinate, precip., 7.2-7.6% Zn, dms., frt. alld lb. .29 • —
Silicofluoride, bbls., works lb. .12 • .13
Stearate, tech., USP, ctns., c.l., lb. .37 • —
l.c.l. lb. .38 • .42
Sulfate, cryst., 22% Zn. bgs., c.l., works, frt. alld. 100 lbs. 8.05 • —
l.c.l., same basis 100 lbs. 8.60 • —
flake, 25½%, Zn, bgs., c.l., works, 100 lbs. 6.00 - 7.40
l.c.l., works 100 lbs. 7.00 - 7.90
powd., monohydrate, 36% Zn, bgs., c.l., dlvd. E. 100 lbs. 8.50 • —
l.c.l., dlvd. E 100 lbs. 9.50 • —
Zinc sulfate in bbls. 40c. higher.
USP gran dms lb. .26 —
Sulfide, pure, bgs., c.l., dlvd. lb. .2530- —
Undecylenate, dms. lb. 2.25 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.65 • —
bbls., c.l., works 100 lbs. 10.25 • —
l.c.l., works 100 lbs. 10.75 • —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. lb. .25½- —
l.c.l. lb. .26 • .41½
normal, dms., l.c.l., works lb. .52 • —
Zircon (G), gran., bgs., c.l., works. lb. .03¼- —
5 tons to c.l., works lb. .03⅜- —
1 ton to 9,999-lb. lots, works. lb. .04 • —
smaller lots, works lb. .06¼- —
milled, bgs., c.l., works lb. .04¼- —
5 tons to c.l., works lb. .04⅜- —
1 ton to 9,999-lb. lots, works. lb. .04½- —
500 to 1,999-lb. lots, works. lb. .07½- —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% som. ZrO_2, c.l., 30,000 lbs. minimum, works lb. .23 • —
Hydride, cns., works lb. 7.60 - 8.45
Nitrate, dms., ex whse lb. 4.50 - 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 1.50 • —
lump, electric-fused, bgs., c.l., works lb. .44 • —
5-ton lots, works lb. .44½- —
1 ton to 9,999-lb. lots, l.c.l. works lb. .45 • —
CP, white, grd., bbls., or bgs., works lb. 1.50 • —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works. lb. .48 • —
milled, electric-fused, bgs., c.l., works lb. .59 • —
5-ton lots, works lb. .59½- —
1 ton to 9,999-lb. lots, works lb. .60 • —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works. lb. .63 • —
Oxychloride, cryst., ctns., 5-ton lots, works lb. .35½- —

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Agricultural Chemicals

Urea prices were generally lower last week, following reductions announced by at least two major producers the previous week. Phosphate rock prices were higher due to increased costs of fuel oil. Dried blood was weaker at Chicago, but stronger at New York. Despite good menhaden catches in the Chesapeake Bay area, supplies were in close balance due to active demand, and prices were higher.

The phosphate strike continued last week at a number of mines and plants, and no one could say when the situation would clear up. Above-ground stocks of rock were apparently sufficient for present needs, and producers were not too concerned about the current supply position. It was agreed that should the strike last another month, serious difficulties would be encountered.

Potash deliveries in North America in the fiscal year ended May 31, 1955, set a new record. Agricultural potash deliveries were up six percent over the 1954 level. May set an all time monthly record for output of synthetic anhydrous ammonia, according to the Bureau of Census.

The pesticide market showed diverse activity during the week. Supplies of BHC in some areas of the south were tight. DDT prices were firm, and demand was strong. Selective weed killers also showed an increased amount of activity.

Price Trends

Advanced

Blood, dried, N. Y., 25c. per unit-ton.
Fishmeal, $4 per ton.
Fishscrap $4 per ton.
Phosphate rock, Florida, 7½c. per unit-ton.

Reduced

Blood, dried, Chicago, 25c. per unit-ton.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Aug. 6, 1954
110.82	110.82	110.83	110.20

(For Current Prices see Page 9)

Animal and Plant Foods

Ammonia, Anhydrous—Buying interest was seasonally dull. May set an all-time record for production of synthetic anhydrous ammonia, according to the Bureau of Census. Production during the month rose to 296,799 tons from the previous record of 286,567 tons in April, and 249,837 tons in May, 1954. Stocks in producers' hands May 31 totaled 60,066 tons, as compared with 52,660 tons on hand at the end of April.

Ammonium Nitrate—The Bureau of Census reports that 135,265 tons of fertilizer grade ammonium nitrate were produced in May, as against 148,259 tons in April, and 129,904 tons in May, 1954. Stocks in producers' hands May 31 totaled 33,373 tons, as against 33,206 tons on hand April 30.

Ammonium Sulfate—The export market was concerned with the outcome of bids for Korea last week, and it was generally felt that the nitrogen situation in this country would largely be governed by the results of the bids. Domestically, business was quiet.

Production of synthetic technical ammonium sulfate in May rose to 104,138 tons from 90,042 tons in April, and 75,910 tons in May, 1954. Stocks in producers' hands May 31 totaled 40,385 tons, as compared with 39,408 tons on hand at the end of April.

Animal Protein—While dried blood at New York was higher by 25c. per unit last week, weaker vegetable meals and slower stockfeed demand brought blood down 25c. at Chicago. Tankage was unchanged and quiet, as were a number of the other animal proteins. Demand for fishmeal around the Baltimore area was particularly strong last week, and although fishing for menhaden was said to have equaled or surpassed last year's record levels, prices were forced higher by strengthening in stockfeed inquiry.

Fishmeal was up $4 per ton, priced at $133 per ton, f.o.b. Chesapeake Bay area, with scrap priced at $4 per ton less. Reports of menhaden catches north of the bay area indicated that fishing was not yet up to seasonal par.

Phosphate Rock—Prices were higher due to increases in fuel oil. All grades of phosphate rock were raised 7½c. per unit. Material containing 68-66 percent bone phosphate of lime was newly quoted at $4.76 per unit; 70-68 percent, $5.16 per unit; 72-70 percent, $5.81; 75-74 percent, $6.81 and 78-76 percent, $7.81. Producers pointed out that the recent increases were brought about solely by increases in fuel oil costs, and had nothing to due with the labor factor.

Meanwhile, the strike at Florida mines and plants still continued, and several major producers were still affected, although one plant settled over two weeks ago with the union. There were no concrete indications as to how soon the strike would be generally settled, as it was evident that the union preferred to deal with one manufacturer at a time.

Supplies of rock above ground at the struck facilities were said to be still ample enough to allow for production of superphosphate. Super itself was reportedly still in good supply, and producers felt that consumers were fairly well covered for the rest of the month. However, it was generally felt that if the dispute lasted into September, the situation could become very serious.

Potash—Potash deliveries in North America by the seven leading American potash producers made a new record of 2,164,997 tons K_2O during the fiscal year June, 1954, through May, 1955, according to the American Potash Institute. This represents an incerase of 8 percent over 1953-54. Potash for agricultural purposes in the United States amounted to 1,897,404 tons K_2O, an increase of more than 6 percent over last year.

Urea—The industry generally was asking $105 per ton, delivered east, for 45 percent agricultural urea following reductions initiated two weeks ago. Industrial grade (46 percent) was unchanged. Urea-ammonia liquors were also unchanged following reductions effective July 1.

Los Angeles Market

Little activity was reported for organic materials with domestic fish meals easier due to heavy arrivals of import meal. Inorganic items witnessed moderate and somewhat spotty demand with all listings firm and unchanged.

Pesticides

Conditions are favorable for boll weevil buildup in Oklahoma, Mississippi and Tennessee, according to the Cooperative Economic Insect Report, issued by the Department of Agriculture. Increase in some areas in Texas and sharp rise in infestation in Arkansas and coastal South Carolina was reported.

By and large, the pesticides picture looked favorable to producers last week. BHC and DDT were said to be in strong demand throughout the south, with the former in short supply due to rather sudden influx of seasonal buying interest over the last few weeks. DDT prices were judged very firm. The Mississippi delta area appeared quite active for most cotton poisons, due to recent rains and consequent buildup of insect populations.

Aldrin—Business was said to have shown good improvement over levels established last year. Business at present was seasonally slow, but July was thought to have been an exceptionally good month, despite the usual slowdown in demand which occurs in June and lasts for the remainder of the summer.

2,4-D—Demand for selective weed killers showed marked improvement, and producers noted that there had been a surge in buying interest in many areas over the past few weeks due to heavy rainfall. While drought, and a consequent low incidence of weeds, was characteristic of some regions, it was felt that generally sales of technical 2,4-D and other selective weeds killers would be as high or higher than 1954 levels.

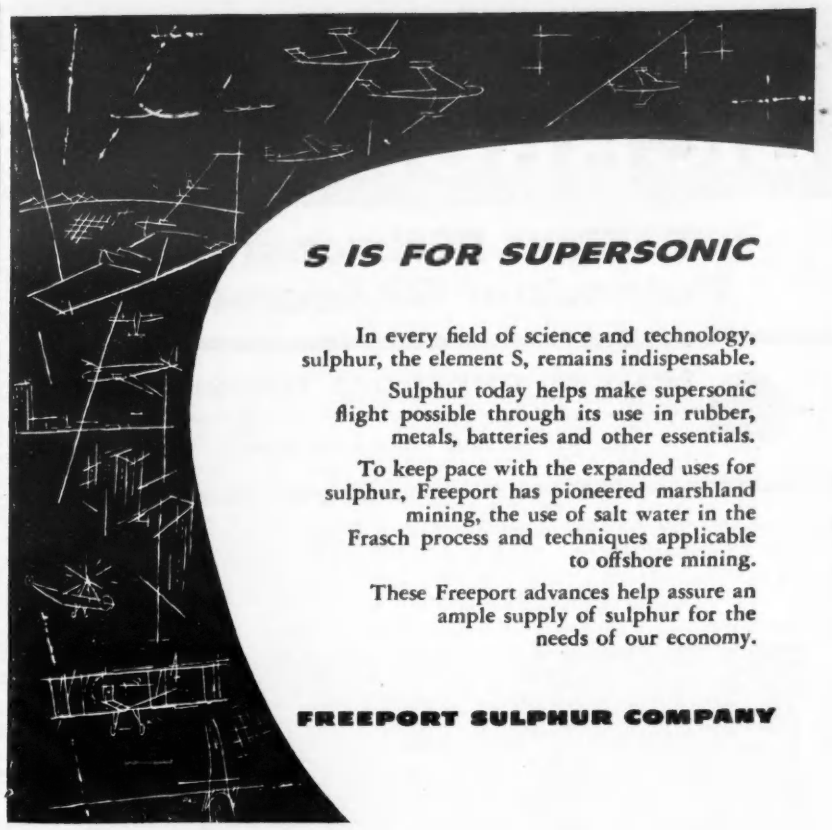
Dieldrin—The market was said to have shown very satisfactory expansion over the past year, resulting in a substantial increase in sales volumes. Current demand was seasonally quiet.

Endrin—This insecticide was said to have taken hold very well in the cotton south, and as a result, suppliers were short. Prices continued firm and unchanged.

Malathion — Although business was tapering in accord with the tail end of the pesticide season, July was said to have been a satisfactory month. Compared to last year, this year's sales thus far were believed to be substantially higher.

Parathion—Prices were steady and unchanged. Business held up well. A slowdown in demand was expected for the remainder of this month and September.

For Late Market Developments, See Page 4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PHOSPHOROUS ACID
HYPOPHOSPHOROUS ACID
ALKYL ACID PHOSPHATES (Alkyl Phosphoric Acids)
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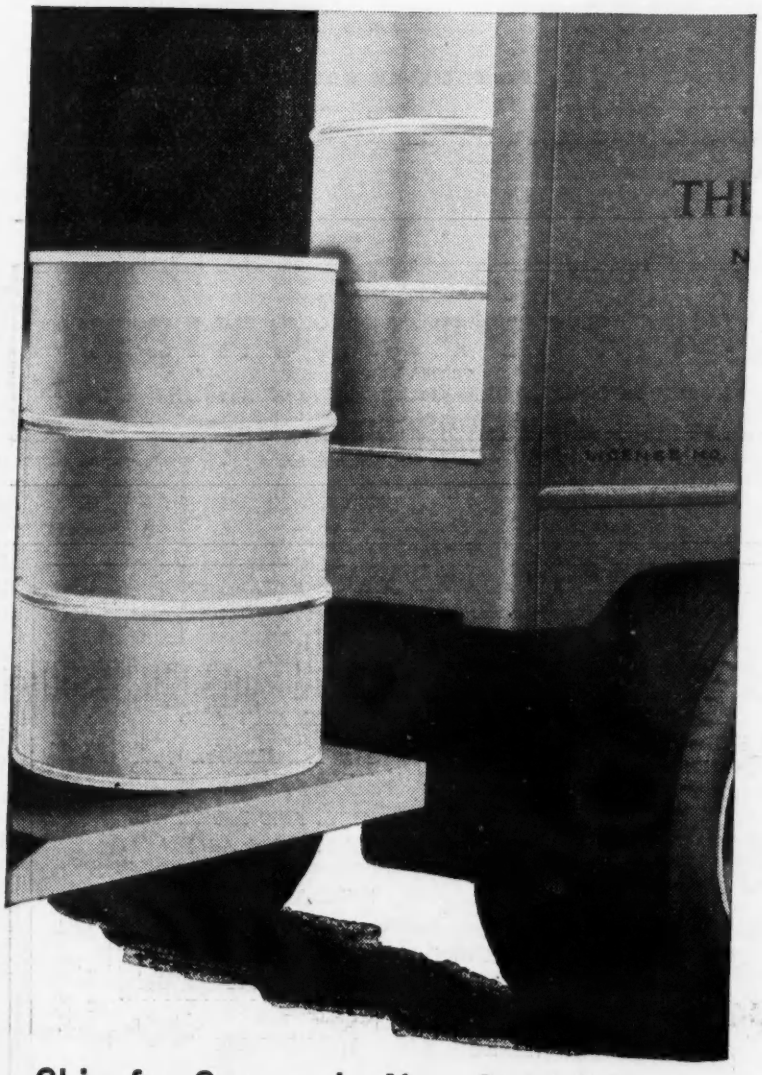

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Textile and Leather Chemicals

Consumers limited purchases of textile and leather chemicals to fill-in requirements last week which is usual at this season. Prices were without change and ruled steady for the entire list. The only change occurred in valonia cups for shipment, which advanced $4 per ton, reflecting the recent advance in beards. Prices were scheduled to advance 10 cents per 100 pounds for corn starch and 20 cents for corn dextrin, effective August 16. Originally the advance was to take place August 1, but was postponed to the later date.

Tight supply of potato starch at Maine and Idaho producing points continued to feature this market. Light stocks were closely held and with offers nil, the market was firm, with quotations nominal. Consumers showed little interest in later requirements but absorbed good sized quantities against former orders. Tapioca flour was quiet, but steady. Buying interest was fair. Shipments from Brazil were maintained at former levels. Other sizing materials moved in a hand to mouth manner.

While tanners showed little interest in tanning material replacements, the market remained steady, reflecting the firmness of primary sources. Shipments were quoted at former levels, except valonia cups which was lifted $4 per ton.

Consumption rate of woolen and worsted fiber in June was 8 percent below the May rate but 11 percent above June, 1954, according to the Census Bureau. During the first six months of 1955, fiber consumption was 15 percent larger than for the same period last year, and 22 percent higher on the woolen system while consumption on worsted system was 5 percent less. The weekly average raw wool consumption in June was 7,781,000 pounds, scoured basis, 8 percent lower than May, but 6 percent above June, 1954. On July 1 carpet wool stocks totaled 31,600,000 pounds, scoured basis, 8 percent above April 1, but 9 percent lower than July last year.

Price Trends

Advanced

Valonia cups, $4 per ton.

Reduced

None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Aug. 6, 1954
105.39	104.60	104.64	104.63

(For Current Prices see Page 9)

Chemicals

Bichromates—Production of sodium bichromate in May totaled 10,734 tons, compared with 9,657 tons in April and 9,530 tons, May last year. Stocks at producing plants amounted to 3,834 tons, May 31, against 3,857 tons April 30. Business was dull reflecting summer quietness. Market remained steady and quotably unchanged.

Sodium Hydrosulfite—Small lots were in fair request for actual needs. Prices were well held at current levels. Production in May totaled 2,442 tons, against 2,746 tons in April and 1,957 tons, May last year. Stocks at producing plants amounted to 1,957 tons, compared with 1,548 tons, April 30.

Sulfonated Oils—Demand was light, chiefly for actual needs. Quotations were unchanged and steady.

Sizing Materials

Albumin Blood — Trading continued slow, reflecting summer dullness. Deliveries against former contracts continued to move in light volume. Prices were maintained at 65c. to 80c. per pound, depending upon quantity.

Corn Dextrin—Business was restricted to actual needs. Prices were unchanged but were expected to increase 20c. per 100 pounds, August 16. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79, and white, $8.53, same basis. Less carlots were 15c. per 100 pounds higher.

Corn Starch—Business was confined to fill-in needs, which is usual at this season. Market was unchanged and steady but quotations were expected to advance 10c per 100 pounds, August 16. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, New York delivery and powder, $7.29 per 100 pounds, same basis. Lesser quantities were 15c. per 100 pounds higher. Visible corn supply dropped sharply, 3,904,000 bushels to 19,118,000 bushels for the week ending July 28, compared with 11,692,000 bushels for the corresponding week last year, according to the Chicago Board of Trade.

Egg Albumin—While demand was confined to actual needs, the market was unchanged and fairly steady. Flake was maintained at $1.60 to $1.64 per pound, spot, depending upon quantity and powder, $1.64 to $1.68 per pound, same basis. Technical was quiet and unchanged at 70c. to 85c. per pound, spot, according to quantity and seller.

Egg Yolk—This market was quiet. Stocks on spot were well held at $1.07 to $1.09 per pound, according to quantity.

Potato Starch—Limited stocks were firmly held by producers in Maine and with offerings practically nil, the market was more or less nominal at 7c. per pound, carlots, f.o.b. mills. Some holders were asking ¼c. to ½c. above this level. Consumers showed little interest, taking moderate quantities of stocks on spot for fill-in needs. Spot stocks were unchanged and steady at 9c. to 9½c. per pound, exwarehouse, according to quantity. Offers from Idaho also were scanty and market was nominal at 6¾c. per pound, carlots, f.o.b. mills. Inquiry for imported starch continued slow. French starch for prompt shipment was quoted around 7.35c. per pound, carlots, exdock, duty paid.

Sago Flour—Consuming demand lacked snap and was restricted to fill-in needs. Stocks on spot were maintained at former levels. Raw was quoted at 6½c. to 6¾c. per pound and refined, 8¼c. to 8¾c., exwarehouse, as to quantity.

Tapioca Flour — While trading was light, consuming inquiry was quite active, for Brazilian starch due to prospects of higher cost of corn starch, which was scheduled to advance 10c. per 100 pounds later in the month. Offers for prompt shipment from Brazil were firm at 6¼c. per pound, carlots, exdock. Only light interest was reported for replacements from the Far East. Stocks of Brazilian flour on spot were maintained at 7¾c. to 8¼c. per pound, exwarehouse, depending upon quantity.

Tanning Materials

Mexican net imports of hides and skins increased sharply in 1953 to 1,721,935 kilograms and again in 1954 to 4,601,247 kilograms. Exports of raw cattle hides and calfskins amounted to 1,626,887 kilograms valued at 4,804,343 pesos in 1951 and in 1954 to only 23,416 kilograms valued at 80,613 pesos.

Approximately 70 percent of these skins come from Government-controlled slaughterhouses, the remainder from farms and small abbatoirs. Observers state that because of insect damage, diseases, brambles, barbed wire, and branding practices, only about 15 percent of the raw hides and skins are of first quality. There is a gradual tendency, however, to improve quality through better takeoff and greater care in handling.

Cutch—Buying interest was reported moderate for forward requirements. Market was unchanged at 8½c. per pound, exdock, plus duty for prompt shipment.

Mangrove Bark—Consumers continued to show little interest in replacements. Primary market remained unchanged and steady. African bark was held at $69 to $71 per ton, exdock. Colombian bark was unchanged at $58 per ton, exdock, and Ecuadorian, $55 per ton, same basis, prompt shipment.

Quebracho Extract—This market reflected the summer doldrums and inquiry for replacements was at low ebb. Shipments, however, were quotably unchanged and well held. Solid ordinary guaranteed 63 percent tannin was offered at 11 21/32c. and clarified 64 percent at 12 23/64c. per pound, exdock plus duty.

Valonia—Cups were firmer, following the recent advance of beards. Shipments of the former were lifted to $50 per ton, exdock, while beards were held at $73, same basis. Interest in extract continued quiet. Prompt shipment was available at 7¾c. per pound, exdock, plus duty.

Wattle—Business continued slow for all grades. Primary market, however, remained steady at prevailing quotations. Fair average bark was quoted at $99 per ton, exdock, and merchantable, $95, same basis, prompt shipment. Extract was well held. East African was named at 9¾c. per pound, and South African, 10c., exdock, plus duty.

For Late Market Developments, See Page 4

Industrial Organic Chemicals

Acrylonitrile price schedules were reduced last week in virtually the only display of price activity for aliphatics. Most materials continued to move at the same sales levels and at steady prices. Demand for some materials has taken a summer dip. While buying interest for a number of products has held up surprisingly well.

Solvent demand for acetone, ethanol, butanol and other solvents remained quite good and very steady. However, reductions in consumer interest were also evident for these products. There was no apparent dip for butadiene, which moved right out to the rubber industry. A number of materials that moved seasonably well were right up where trade sources expected they should be. Ethylene glycol was a prime example of this situation. Canning operations, which have gotten under way for antifreeze, were keeping the market in tight supply.

Formaldehyde was running along well. A strike in the trade, which still continued last week, has not resulted in any extra pressure on other producers, it was said. The decreases in summer interest from a number of consuming outlets prevented a critical supply situation. Refined glycerine was moving out at a regular pace. Demand was well diversified. Amines were holding up well. Most glycols were steady also.

Nitroparaffins remained in tight supply and at formerly posted levels. Oxalic acid saw a steady demand keep supplies of the smaller crystals short.

Price Trends

Advanced

None

Reduced

Acrylonitrile, 4c. per lb.

Comparative Price Indexes

(100=1948 average)

Last week	Prev. week	Last month	Aug. 6, 1954
130.91	130.96	131.03	131.89

(For Current Prices see Page 9)

Acetone—Demand remained at a good level. Trades sources indicated that there has not been much reduction in solvent sales activity due to summer slackness. There has been a little easing, according to a few producers. But, the extent of the reductions varied in different sources' views. One or two makers related that July sales did not fall off at all.

The most significant feature of the market was that demand has held up so well. Advance orders were also reported to be very good, by some producers. Price schedules were firm at previously posted levels. There was ample production to handle consumption requirements.

Acrylonitrile—Prices were reduced 4c. in tankcars and 3c. in drum quantities effective August 1. New schedules were quoted at 27c. per pound in tankcars, 30c. per pound in drum carlots and trucklots, and 31c. per pound in less than truck lots.

Producers indicated the market was fairly good. Demand has held up to a steady level in recent weeks. Consuming outlets were showing a gradual growth and development of the market, it was said. Demand from synthetic fibers has substantially improved. There was also a steady movement to specialty rubber outlets and latex end-use.

Alcohol—Demand was holding up well. Producers said that calls for ethanol from many different directions were keeping up a steady stream of market activity. There was ample production capacity to take care of all anticipated requirements.

Prices were currently considered firm. Most trade sources felt that present levels would hold for a while. It was added that quotations were more likely to go up than down due to the firm market, but no move was looked for immediately.

Butadiene—Demand levels continued to hold up very well. Producers were moving production out to take care of incoming orders as fast as material was being made. Demand from the rubber industry has shown no sign of immediate slackening of the pace.

Butyl Alcohols—Demand for normal fermentation butanol continued to hold up to a good pace. Producers said that diversified demand kept the product moving at levels equal to output. The prices were firm without change.

Diethylene Glycol—Demand was holding up in this market fairly well. Producers felt that business would continue to be good. There was ample production to handle the needs. Prices were firm at old listings.

Ethylene Glycol—No significant variations were noted in this market during the past week. Antifreeze demand has been hitting the market hard. Producers were not able to keep abreast of all of the calls they received, thus, some deliveries were running behind.

It was felt that this situation was largely resulting from a crowding of one year's business in a few months time. Canning operations by antifreeze suppliers are going on now and were expected to remain at a peak for the next month or more.

Antifreeze glycol during this period was expected to be quite tight. Industrial consumers have also been taking a good volume of glycol steadily. However, demand from that direction was considerably smaller than antifreeze and capable of being handled by consumers.

Formaldehyde—Producers indicated that they did not see any extra pressure on the market as a result of a strike at one plant that continued last week. Another strike was settled, while this one continued. It was reported that reductions in summer buying patterns greatly mollified the influence of the strikes.

Demand had been running quite close to production levels in the months prior to the mid-year. However, some easing in the market as a result of shutdowns in the textile resin field and in resin adhesives, particularly in the east, prevented the market from growing critically tight because of the lost production. So far, it was felt that consumers were not being hurt. This also indicated that there had been some advance ordering prior to July 1. And, consumer stocks were apparently in good condition.

Orders for August were said to be coming in at a normal rate. Sales were picking up to levels that were anticipated, the regain over July being normal. No particular difficulty was looked for in the market, unless the labor tie-up continues for a while longer, it was said. Meanwhile, prices were firm and constant.

Formic Acid—The market for this material has not shown any ill effects from a strike at one source's plant. It was reported that there apparently was enough material available to take care of the consumption requirements. It was said the industry was taking the loss of output right in its stride. One of the factors relieving any pressure at this time was that demand was at a seasonal low point.

Glycerine—Market activity remained at a relatively good pace last week. Producers indicated that they continued to move their production right along. There have been vacation shutdowns here and there. But, many consumers reopened while others were just beginning to shut down. The net effect was that total demand has not fallen off to any extent.

It was said that some consumers were coming back in and asking for material right away because they have no inventory to work from. Thus, some of the buying this month was expected to be part of an attempt to improve inventories. However, trade sources felt that there wouldn't be too much immediate success with such an attempt. Supplies were presently a little snug. In a few months time, it was felt that the situation would improve because of new production of synthetic glycerine that has been coming into the market. There was also a little more availability of crudes.

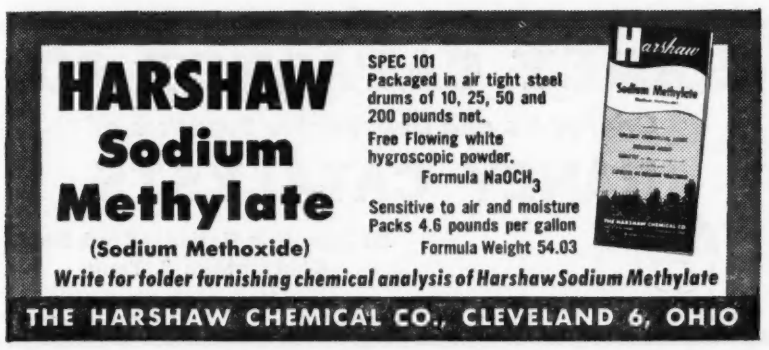
Imported crudes have been coming in from the Argentine at a better pace in recent weeks. Quotations were still on the basis of 21c. and 23c. for soaplye and saponification. But, a slight weakening was evident in the sale of material on a delivered basis rather than f.o.b.

Methanol—Trade sources said the market was firm and material was moving well. Supplies were a bit snug, with suppliers trying to take care of both the needs of industrial consumers and the antifreeze trade too. Deliveries were running a little late because consumption is so high, it was added.

Besides the large outlet for methanol

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the Coal Chemicals market, while reports on fine and rare organic chemicals appear in the Drugs, Fine Chemicals, Botanicals market.

For Late Market Developments, See Page 4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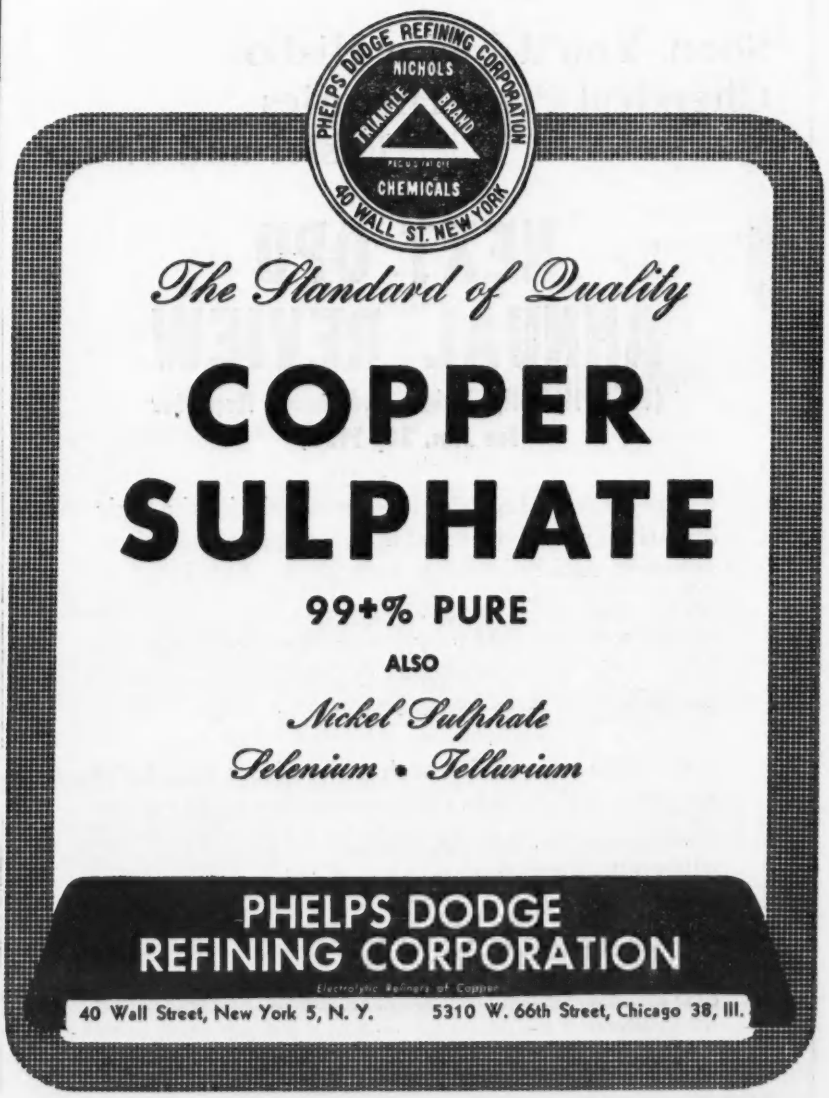

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in formaldehyde production and derivatives of formaldehyde, there were also other industrial uses that have increased in volume more than many sources had been expecting. One such use was in gasoline additives. There has also been a good export demand for methanol.

Methylamines—There were no significant changes in the market for these amines. Producers indicated that demand was holding up well. Mono-, di-, and tri- methylamines were selling at the same prices as previous weeks. Supplies were adequate for the demand.

Nitroparaffins—Supplies of nitroethane and nitromethane continued to run short of total demand. The same was true of nitropropanes and other nitroparaffin derivatives. The chief reason stocks have been insufficient to meet the call was that production facilities have been inadequate to handle the demand that has developed in the market.

New production facilities are due to come in the market this month, according to earlier announcements. However, the first plant facility to come in will be for basic nitroparaffins, while the derivatives plant will come later. Thus supplies of nitroethane, nitromethane, 1-nitropropane, and 2-nitropropane were expected to be improved in the near future. Prices meanwhile, have held to former listings.

Oxalic Acid—A steady demand remained at a highly satisfactory level. Producers found that small and special fine crystals were still running short of overall needs. There was adequate large crystal oxalic around to meet demand.

Aside from the large radiator cleaning business, this acid has been enjoying expanded activity in other washing and cleaning operations. One of the good volume consumption channels now was in railroad car cleaning, it was said. Prices have held steady at previous postings.

Paraformaldehyde—Demand for flake material was picking up slightly after experiencing the normal seasonal letdown last month. Flake and powdered para were adequately available to handle consumption needs.

A strike was still on last week, reducing total supplies of USP material available. However, there was no evidence of any consumers being hurt because the normal July decreases in demand have been keeping the effects of a strike to a minimum. August requirements were not expected to surge ahead immediately. Thus, the supply picture does not appear critical at this time.

Pentaerythritol—Demand for this material has seen a slight amount of softening due to summer vacation periods in consuming industries. Some producers have not felt the decreases and continued to run their facilities at capacity levels.

A strike that continued last week did not appear to put any extra pressure on the market. Trade sources felt that the loss of production has not brought a tighter situation because of the buying season. It was also felt to be evident that consumers were not in a critical supply position.

Perchloroethylene—There were no significant changes in this market. Producers were moving material right out for dry cleaning needs and for industrial solvent applications. Consumption of perchloro for dry cleaning use normally picks up during the summer months due to more frequent cleaning of clothes in the hot weather.

Triethylamine—The market for the amine in controlling viscosity of paints is steadily growing, producers reported. It was added that the addition of amine for this purpose is becoming a regular component in many paints. Consequently, an expanding market still lies ahead of the tri-isomer. "More and more manufacturers are using amines for this purpose," the supplier indicated, "and still others have yet to be introduced to it."

Currently, the price is firm and supplies are good. Ample output was available to take care of consumer requests.

Organics Production: May

Figures for industrial organic output for May 1955, compared with April 1955, are recorded in the following table. The statistics are released by the Tariff Commission in a regular monthly report.

		Production—May	Production—April
Acetic acid:—			
natural	lbs.	1,962,000	1,800,000
synthetic	lbs.	39,659,425	43,455,842
Acetic anhydride	lbs.	70,477,336	72,126,553
Acetone	lbs.	41,508,200	43,518,473
Butyl alcohol, primary	lbs.	17,528,719	20,958,005
Carbon disulfide	lbs.	46,688,162	46,684,765
Carbon Tetrachloride	lbs.	25,020,531	19,442,253
Ethanolamines:—mono-, di- and tri-	lbs.	6,256,720	6,172,352
Ethyl acetate (85%)	lbs.	6,170,782	9,006,074
Ethylene glycol	lbs.	72,854,169	55,755,714
Ethyl ether, tech., and USP	lbs.	5,591,467	*4,987,368
Formaldehyde (37% by weight)	lbs.	104,700,132	104,641,038
Formic acid	lbs.	1,535,689	1,424,308
Hexamethylentetramine	lbs.	2,175,309	2,098,238
Methanol:—			
natural	lbs.	.....	1,225,400
synthetic	lbs.	111,152,078	105,485,932
Oxalic acid	lbs.	1,950,925	2,062,235
Pentaerythritol	lbs.	5,885,370	5,815,532
Perchloroethylene (tetrachloroethylene)	lbs.	14,711,310	11,620,228
Propylene glycol	lbs.	5,690,518	4,095,986
Trichloroethylene	lbs.	25,098,789	22,831,952

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Petroleum Derivatives

The position of materials in the petroleum derivatives market was considerably firmer, on the whole, than they have been since the spring. While there were no changes in quotations last week, most products moved at relatively stable paces. Producers stated that inventories were adequate in most material to serve the needs of consumers. The full aromatics, particularly toluol, maintained a good supply status.

A moderate level in rubber solvent shipments was noted by suppliers. The toluol picture appeared quiet last week, with no changes promised. The usual seasonal trend of high stocks was the situation on the propane and butane markets. Spot prices remained weakened as a result, although contract prices were reported heavy.

The waxes remained firm throughout the week, with sales proceeding at a good pace. Some producers said the situation was so firm on an overall basis that material was expected to continue to move steadily. Paraffin consumers were reported building up stocks wherever possible. No major changes were expected in the immediate future.

Solvents and Diluents

Benzol—The market for this material was still reported by producers to be well supplied. One industry spokesman explained that expected increases in usage by various industries have not been as heavy as was previously anticipated. Because of this sufficient quantities of petroleum source benzol remains available Despite this, the material was still described as moving well. Prices held steady over the past week.

Heptane—The rate of demand over the past few weeks appeared to satisfy most producers. Production was reported not too closely pressed to keep up with demand, however. Requirements in the export market were not greatly changed, according to sources in the industry. Prices remained on a par with their former levels, with material quoted at 19c. per gallon in tankcars at Bayonne, N. J.

Lacquer Diluents—continued heavy paint sales remained the boon of the summer market, producers reported, as lacquer diluent sales continued abreast of demand. With one of the heaviest seasons ever, producers have noted that a record for sales and also production may be in the making. There were no price variations.

Mineral Spirits—Supplies were found to be keeping abreast of demand, in spite of the summer upsurge in paint sales. With industrial production schedules being stepped up, no oversupply of material was expected in the near future. The boom in home building indicated a continued expansion of the market for both the regular and the specially refined, or ordorless grades of the material. Prices remained firm and unchanged with demand reported continuing without much overall change apparent.

Partial Aromatics—The diversified interest in aromatics by industry in general plus the continuing heavy production in the automobile industry have resulted in a noticeable increase in sales, industry sources stated last week. Prospects of continuing demand in the near future are good, it was also stated. Despite this increased emphasis on the use of aromatics in many industries, producers were quick to indicate there was no difficulty in filling orders. No actual shortages were encountered by any suppliers. Prices held steady at previous postings.

Rubber Solvent—Consumption of this material has moved along anticipated lines during the past few months. Though winter and spring sales had been very good, a feared summer slump has followed. Though the decline has not been as violent as in some other fields, it has been felt. Full scale producing schedules by the rubber industry were what kept the industry in such stable shape through most of the colder months. Prices were stable at former quotations.

Toluol—This market kept abreast of conditions last week. Some producers indicated that this and other related markets might become soft in the near future. Chief reason for this line of thinking was said to be the increasing competition from small producers. More and more small, independent producers and suppliers seem to be covering consumers in ever increasing areas, it was stated. However, the supply picture for both large and small producers remained good. Orders were reported being filled from plentiful stocks. The export market remained quiet. Most European users were felt to be well stocked for the immediate future, industry sources said. The price picture remained firm.

Xylol—There were no changes in the market for this aromatic. Producers had sufficient production to meet any demands of manufacturers. This market was marked by the same features noted for the other aromatics, i.e., conventional summer demand along with a plentitude of supply. Producers saw no immediate change pending. Prices remained steady.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Aug. 8 1954
104.32	104.32	104.32	104.42

(For Current Prices see Page 9)

Lighter Fractions

LPG's—Though sales were still down in the summer slump wallow, the first queries from buyers for fall sales were beginning to be seen about, producers noted. Though no immediate change in the market is expected, sales should begin to rise within weeks. Contract schedules for propane and butane remained unchanged. No price changes were indicated.

Waxes

Microcrystalline—A good state of balance was maintained in this market, with production not too far removed from demand. Producers reported very little excess material, if any. Non-domestic buying continued to help maintain the market at its good level, particularly in the sale of low priced material. Quotations remained unchanged.

Paraffin—Most products in this category were moving quite well, manufacturers have stated. The market was well balanced in regard to supplies and any additional buying activity could be accommodated if it materialized, it was reported. The outlook was felt to indicate a steady or increased rate of business, a good portion of which found source in the southern hemisphere. One producer noted that the growing sales of paraffin in South America and the Republic of Mexico reflected an industrial growth in those areas. Quotations remained unchanged.

Miscellaneous

Daily crude oil refining capacity of the U.S. jumped more than 400,000 barrels in 1954 to reach a new peak of nearly 8,500,000 barrels, according to a statement made by Douglas McKay. He based his statement on a Bureau of Mines survey of capacities at domestic refineries which shows that at the beginning of this year the nation's ability to process crude petroleum reached the new level of 8,420,630 barrels daily, compared with 1953's 8,006,897.

The bureau's report also shows that while the number of operating units dropped from 337 to 326, the capacity increased because of enlargement of the remaining operations.

Los Angeles Petroleum Market

Los Angeles.—Interest in LPG's was light with little market activity reported. Stocks were ample with no price listings changed. Propane quoted .059 per gallon, tankcar basis, f.o.b. Los Angeles. Butane quoted .069 per gallon, same basis.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended July 23 totaled 270,027,000 barrels according to data reported to the Bureau of Mines. Compared with the total of 268,815,000 barrels for the preceding week, this represents an increase of 1,212,000 barrels comprising an increase of 1,510,000 barrels in stocks of domestic crude and a decrease of 298,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

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Kauri Butanol No....	40	45
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Coal Chemicals

It was announced last week that the price of ADF cresylic acid was increased 10 cents per gallon. Producers reported that new business and new contracts would be protected until their termination date. The rising cost of coal in England, combined with higher labor costs and freight rates were cited as factors in the price advance. ADF material was considered short, chiefly because the producing countries are using much of it themselves. Domestic cresylic was said to be very tight in most areas.

Demand for resale coaltar material was limited in most quarters, according to suppliers. There were slight indications of improvement in creosote marketing. Railroad buying was reported on the increase. The production and sale of naphthalene continued to reach high levels as more and more steel is produced. Much of the naphthalene is used by phthalic anhydride producers who in turn are selling material to automobile manufacturers. Phenol activity was described as fairly good. Plenty of material was available, it was reported.

A good amount of diversification was noted in the application of benzol and other light oils, thus making the market rather stable. Production continued to hit record peaks as coking operations maintained their high level. Suppliers stated that benzol demand from synthetic rubber producers was helping the market situation a great deal. Several producers stated that toluol production was in fairly good shape and would remain so for the rest of the third quarter and probably the fourth. A good balance was noted between supply and demand of xylol.

Some intermediates were doing quite well, trade sources indicated. Aminoazotoluene, a relatively small item was described as quiet, marketwise. Good movement in aniline to the rubber industry and hydroquinone was reported. Benzyl chloride, for the manufacture of sodium salts used in soft drinks, is enjoying the usual summer surge in buying. Maleic anhydride sales were good. Phthalic anhydride was still reported to be strong as automobile buying kept interest at a high level.

Steel production in the week ending August 7 was scheduled to be at 94.4 percent of capacity, or an index of 141.8, according to the American Iron and Steel Institute. This was equivalent to 2,278,000 tons, compared with 2,190,000 tons one week ago, 2,073,000 tons one month ago, and 1,527,000 tons one year ago.

Basic Products

Benzol—No significant changes were noted in the market last week. Steady amounts of material were reported moving to regular consuming channels. The large consuming outlets for benzol in synthetic rubber and synthetic phenol have simplified the task of keeping output moving along. These outlets have held up through most of the year and one or two other uses for the material have shown considerable improvement in the past month or more.

A good amount of diversification was noted in product usage, and some sources attributed the good market conditions to this fact coupled with continued strong demand for products using benzol from the automobile industry. Producers stated that buying was still rather firm in the insecticide market. Material was moving at a steady rate from production to buyers' storage facilities. On the whole, most stocks were said to be ample, but no substantial surplus could be seen by producers. Prices were unchanged last week.

Coaltar—Demand for resale coaltar material was limited in most quarters, according to suppliers. No price changes were noted and supplies were said to be ample to take care of any consumption needs. Suppliers cited the high steel production rates as the main factor governing the present good inventory status.

Creosote—There were slight indications of improvement in one or two areas, but the market on the whole was still very soft, producers reported. No sign of a significant increase in buying interest was predicted until the railroads begin large scale improvements, perhaps in the fall. No suppliers would venture an opinion when conditions might improve. Current price listings were unchanged.

Cresylic Acid—Exceptional strength was still prevalent throughout most of the cresylic and tar acids market. Producers cited this market as the one phase in coal chemicals marketing that was consistently showing strong features. Much of the material being produced was being sold for regular end uses, including cresylic resins, tricresyl phosphate, wire enamels and engine cleaners.

All crude material was being processed as soon as the necessary equipment was available, producers reported. Besides the use of cresylic acid for the production of the products mentioned above, there was also some demand for material in the use of disinfectant and flotation uses. Suppliers of petroleum acid were also doing a good business in this market. Because of the heavy demands for some grades, suppliers stated that it has become necessary to allocate certain amounts to consumers.

The price of ADF cresylic acid was advanced last week. An increase of 10c. per gallon was reported in all quarters. The new price for imported cresylic, 75 percent at 215°C. or over, drums, exwarehouse, is 85c. per gallon. In tankcars, bulk, the new price is 81¼c. per gallon. The single drum purchase price has also increased 10c. per gallon and is now $1 per gallon. Producers reported that new business and new contracts will be protected until their termination date.

One of the reasons given for increase was the rising cost of coal in England, which is reported up 18 percent. Higher labor costs and freight rates were also cited as factors in the advance. Tar acid prices were said to be on the increase all over England. Not much material was reported available for export to this country. European suppliers were taking much of the material for their own use. ADF material was still considered short.

Naphthalene—Production volume continued to reach high levels as coking activity maintained the pace it began early this year. Demand for crude material was still strong, producers indicated. Despite the good production levels, however, suppliers noted that buyers for material could be found rather readily. There seemed to be little tendency toward stockpiling material.

Record production in the automobile industry has boosted end use of phthalic anhydride in industrial finishes considerably. Naphthalene, of course, is used in great quantities in the production of phthalic. Some users felt that they had to hold larger stocks to cope with the greater volume of business. Recently, buying interest has not increased to any great extent, but the pressure of former buying has been maintained to a large degree. No indications of a lessening were noticed by suppliers.

Most importers of foreign naphthalene indicated that very little business was actually being transacted currently. It was more a case of activity in old business and the fulfilling of former contracts. Domestic buyers were still very reluctant to accept material at the 7c. per pound price desired by primary sources. The current listing for imported crude naphthalene

Price Trends

Advanced

Acid, cresylic, imp., 75% at 215°C. or over, 10c. per gal.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Aug. 6, 1954
114.74	114.73	114.67	114.57

(*For Current Prices see Page 9*)

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending August 7, was as follows:—

Ammonia liquid, NH_3	lbs.	1,063,951
Ammonia sulfate	lbs.	38,454,229
Benzol	gals.	3,678,231
Coaltar	gals.	16,871,223
Creosote oil	gals.	942,357
Naphthalene, crude	lbs.	2,599,080
Pyridine, refined	lbs.	27,359
Toluol	gals.	723,437
Xylol	gals.	193,931

For Late Market Developments, See Page 4

was still at 6¾c. per pound. Both consumers and suppliers were felt to be waiting for an indication of a trend to determine future needs.

Phenol—Present activity in this market was described as quite good. Natural phenol grades were moving quite well at a rate that was consistent with overall business volume. Trade sources indicated that demand for synthetic phenol improved in recent weeks.

There was still some price weakness as material continued to move at the old price despite the new listings which became effective July 1. It was not known just how long it would take to strengthen the price picture. Both natural technical and synthetic grades were said to be available in good quantities. Trade sources stated that sales continued at a good pace.

Pitch—The continued good level of activity was cited by producers in this market. A strong demand from the aluminum industry for pitch used in making electrodes was quite high and appeared to increase monthly. The heavy demand in this phase of aluminum production has resulted in some pitch that formerly had been burned as fuel being diverted into the market to fulfill needs, trade sources stated. Because of this plan, additional material was available for industrial use.

The development of new aluminum producing facilities was providing a growing market for pitch and other materials used in the processing of aluminum. The supply situation in pitch was described as adequate, but by no means in excess. Good inquiry for material in the processing of roofing materials has kept this phase of production in fairly good position. A prime reason for the strength here is the high rate of home building in the country. While the market as a whole could not be considered tight, there was a good bit of firmness evident in most quarters. No new prices were announced.

Toluol—Several producers stated that they were in fairly good shape for the rest of the third quarter, and possibly well into the fourth. Production of this aromatic was adequate to take care of all the industrial requirements in the market, trade sources reported. A large portion of the good supply situation for toluol and other light oils can naturally be attributed to near record steel production rates over the past six or seven months.

Sales during July were said to very good. Defense buying was off somewhat, it was reported, but total buying interest has increased to such a level that the dearth of government buying, while important to some degree, has not had a shattering effect on the toluol market. The price structure remained standing and showed no indication of falling in the near future.

Xylol—The balance between xylol and other light oils was about the same. The call for material for use in industrial finishes and alkyd resins was given as a good outlet for this market. Sources reported that the market for 3 and 5-degree materials was improving somewhat. Such of these degrees are used in dyestuff production and also in pharmaceutical manufacture.

Adequate supplies of material were reported available to handle consumer requirements. In most areas, buying interest was ample. The high steel production rates have placed plenty of material in suppliers hands. Prices were unchanged last week.

Intermediates

Aminoazotoluene—The volume of sales did not show much of a surge in recent weeks. Trade sources indicated that this item is relatively small. The market was described as rather quiet. Supplies were ample for anticipated needs. Prices were firm in all quarters.

Aniline—There was good movement in this market, it was reported. Producers were selling output to regular consuming channels at a sustained pace. The rubber industry provided good activity, as did textile dyestuff intermediate use. Some interest by producers of hydroquinone was noted. The prices were firm. Consumers have been able to get an ample amount of material with little difficulty.

Benzyl Chloride—The markets for this chloride, benzal and benzoyl chlorides were steady. Demands were not showing signs of a pickup yet, but recent shutdowns in the textile industry for vacations will soon be completed and production will be in full swing. Interest in material for the production of sodium benzoate which is used in the soft drink industry is reported at good summer levels. Prices were firm without change.

Maleic Anhydride—Producers were getting steady demand from synthetic resin outlets and polyesters. Total demand has

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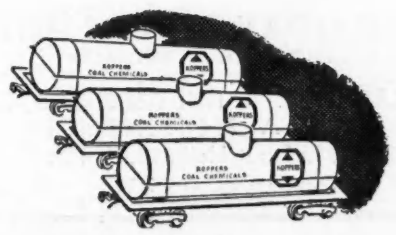

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held up to rather good levels. Production volume this year has been at a consistently good level. There was enough material available, according to suppliers to meet any demand that should come along. Prices were firm without change.

Phthalic Anhydride—With the advent of a vacation schedule in some plants there was a slight slackening of demand in recent weeks. It has allowed producers to organize their distribution schedules. The tight situation prevalent for some time still remains in most areas, however, and no relief seems to be in sight.

Some producers have anticipated a lessening of demand for some time, but there has been little, if any, sign of it. Aside from the regular seasonal cutback, which is said to be practically negligible by producers, the market has been very strong. As the fall approaches, producers are watching the automobile industry with a wary eye for signs of an early changeover to new models. This is not expected to have any great effect on phthalic production, but there could be some shuffling of material.

Salicylic Acid—Demand was said to be pretty quiet throughout this market. Inquiry for material was slight, and most producers making salicylic acid were going along with the needs of consumers. Current price listings show crude salicylic in drum carlots at 35c. per pound, less that carlots, same basis, 36c. Sublimed technical grade in drum carlots is listed at 37c. and less than carlots at 41c. per pound.

Triphenylguanidine — Demand was steady. Suppliers of material said that inquiry could be considered good. Production seemed to be ample to meet old and any new demand which may arise. Price schedules were firm in most quarters and no changes were contemplated in the near future, according to producers.

Flemming Asked to Explain Plans to Check Oil Imports

Declaring that imports of petroleum during the first half of this year were at such high rates as to "constitute a threat to our security," twenty-seven senators last week asked Aruthur S. Flemming, director of the Office of Defense Mobilization, what action he will take to hold oil imports within the levels set by the President.

"As senators interested in national security and expanding production of domestic natural resources, we have observed with growing concern the increasing rate of imports of petroleum from foreign sources with relation to domestic production," they stated in a letter to Dr. Flemming. "For the first six months of 1955, this ratio was substantially above that of 1954, the level recommended by the President's Cabinet Committee on Energy Supply and Resources Policy."

Reilly Tar Appoints Two To Chicago Facility Posts

Raymond E. McGrath has been named manager and Vincent J. Hall assistant manager of the combined Chicago plant and sales office of Reilly Tar & Chemical Corporation, Indianapolis, Ind.

During his thirty-three years with the company, Mr. McGrath has served in the sales department and has been purchasing agent and general traffic manager. Along with his new duties, he will continue in his capacity as general traffic manager. With the exception of time out for service in World War II, Mr. Hall has been with Reilly for thirty years. He served in the shipping, order and credit departments and, after the war, the sales department.

Vulcan Companies Consolidate

A new organization, Vulcan Containers, Inc., has been formed by consolidating Vulcan Stamping & Manufacturing Company and Vucal Tin Can Company, both Bellewood, Ill. Vulcan is a maker of steel shipping cans, drums and pails, tin cans and container specialties.

Nat'l Aniline Appointee

Cornelius C. Coakley has been appointed director of operations of the National Aniline Division of Allied Chemical & Dye Corporation, New York. Mr. Coakley has been succeeded as manager of National Aniline's Buffalo, N. Y., plant by James F. Daly.

DuPont Advertising Mgr. Of Finishes Unit Retires

Stuart L. Johnston, advertising and promotion manager of the finishes division, of E. I. duPont de Nemours & Co., Wilmington, Del., has retired after a career of forty-four years in the paint industry. He has been succeeded by L. M. Davis, who was assistant advertising manager.

Mr. Johnston joined the Bridgeport Wood Finishing Company, New Milford, Conn., in 1910, as a stenographer and correspondence clerk, and later was assigned to promotion work. Bridgeport was purchased by duPont in 1917. From 1919 to 1932 Mr. Johnston was a member of the duPont advertising department, and was at various times advertising manager for paints and varnishes, dyes, acids and chemicals, lithopone pigments, rayon, and cellophane.

Mr. Johnston was appointed manager of advertising and promotion of the finishes division in 1932. He was a finishes sales supervisor in the Philadelphia regional office from 1938 to 1942, when he returned to Wilmington as distribution manager of the finishes division. He again was appointed advertising and promotion manager in 1945.

WOC Plan Is Allowed

—Continued from page 3

qualified industry men to WOC positions in the government will come around the first of the year when many of the terms of the current WOCs expire. It is not believed that the disclosure requirement is legally applicable to WOCs now in office as the bill states that it shall be effective as of July 31, 1956.

In addition to imposing the restrictions on WOC personnel, the bill provides for an extension of the Defense Production Act for one year, as against recommendations of President Eisenhower that it be extended for two years. Other sections of the bill provide for development of substitute materials for strategic and critical materials likely to be in short supply in time of war or other national emergency; extend the antitrust law exemption of voluntary agreements involving primarily military items for another year with a provision that nonmilitary agreements may continue in effect but subject to review by the Attorney General within ninety days to determine whether they should be terminated or continued; and authorize the establishment of an "executive reserve."

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Pepper's World Output

—Continued from page 5

500,000 pounds. On the basis of population increase alone (24 percent since 1935-39), the United States should be consuming almost 43,000,000 pounds of pepper. On the other hand, a low per-capita consumption level has been the pattern for more than fifteen years and it is doubtful that the consumer will react so rapidly to the lower prices now prevailing as to re-establish prewar per-capita consumption levels, it was said.

The United States consumer has learned to use other spices for their own qualities as well as for pepper substitutes. Further, the decline of home-prepared foods makes industry responsible for the primary increases in pepper usage in the near future, it was noted. United States imports in 1954 totalled 37,000,000 pounds. Somewhere between that figure and 43,000,000 pounds may rest the maximum requirements of the United States at the current population level. In the meantime, world output increases as Indonesian plantings continue to rise toward prewar levels and Sarawak production exceeds seven times the prewar level. One factor alone threatens to slow the upward trend—disease. This factor has wiped out production in some areas and threatens destruction of pepper vines in other producing areas unless brought under control within the near future, it was pointed out.

Oil Seed Product Marketing

—Continued from page 7

to Meet the Needs of the Paint Industry." George K. Nelson will conclude the symposium with a discussion of "New Product Development Programs for Processors of Vegetable Oil Seeds."

A second symposium, covering marketing problems in the milling industry, has been scheduled for September 15 and will also be presided over by Mr. Renfrew. B. M. Hagan will talk on "The Commercial Development of Guar." Walter T. Blake will discuss "Launching New Food Products," and will be followed by a talk on "Flour Treatment Service—A Way of Marketing Chemical Agents," by R. C. Sherwood.

"Selling New Equipment to an Old Industry," will be discussed by R. J. Hoskins and R. B. Dodds. George R. Beach, jr., will talk on "Amino Acid Market Development," and George Wilkens will present a talk entitled "Strictly Public —The Story of the Minneapolis Grain Exchange."

Bids Wanted

Acetone, 120,000 lbs., spec. JAN-A-489, inv. 7, Aug. 25, Naval Powder Factory, Supply Officer, Indian Head, Md.

Alcohol, 1,270 dms., also 115 54-gal. dms. of same, 335 54-gal. dms. isopropyl alcohol, 768 ¼-lb. bots. butyl alcohol, 1,152 1-lb. cns. absolute ether, 672 ¼-lb. bots. chloroform for anesthesia, 216 500-gm. bots. stearyl alcohol, 12,960 ¼-lb. cns. ether, 432 100-gm. bots. ethyl chloride, inv. A-37, Aug. 15, Veterans Adm., Procurement Div., V. A. Bldg., Washington 25, D. C.

Antifreeze, inhibited ethylene glycol compound, 1,200 gals., inv. ENG-15, Aug. 15, Corps of Engineers, Omaha, Neb.

Chemicals, including methyl isobutyl ketone, zinc chloride, triethylamine, glycerine, sulfuric acid, cyclohexanone, acetone, sodium hydroxide, etc. (62 items), inv. 5, Aug. 26, Robbins AFB, Purchasing and Contracting Office, Seattle, Wash.

Hydrochloric Acid, 6,250 lbs., tech. (muriatic), 13-gal. carboys, 125-lb., inv. 151-745, Aug. 15, Supply Dept., Bldg. No. 83, Phila. Naval Shipyard, Phila. 12, Pa.

Insecticide, 67,825 lbs., 1% lindane powd., in non-ret. dms., inv. 621, Aug. 15, Navy Purchasing Office, 3rd Ave. and 29th St., Brooklyn 32, N. Y.

Paint, enamel, 21,748 gals. synth., gloss, air drying, for metal and wood surfaces, class A, inv. 8, Sept. 6; enamel, 22,100 gals., interior gloss, inv. 15, Aug. 22; 29,908 gal., interior, oil flat, ready-mixed, inv. 11, Aug. 24; Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa., paint, rubber base 400 gals. ready-mixed, in 1-gal. cns., inv. 1-56-141B1, Aug. 18, C.A.A., Chief, Contracts & Claims Section, Fed. Bldg., N. Y. International Airport, Jamaica, L. I., N. Y.

Pentachlorophenol fungicide, 14 dms., 55-gal., liq., 5% penta, inv. 2, Aug. 10, Ft. McClellan Purchasing and Contracting Office, Ala.

Propane, liq., coml., 800,000 gals., inv. 4, Aug. 15, Francis E. Warren AFB, Purchasing and Contracting Officer, Wyo.

Silver cyanide, 120 bots., high purity, inv. 47, Aug. 12, McClellan AFB, Purch. and Contracting Office, Calif.

Triacetin, 110,000 lbs., stock number 51-T-6000, inv. 8, Aug. 26, Naval Powder Factory, Supply Officer, Indian Head, Md.

Allied Picks Credit Manager

Anthony S. Fasullo has been appointed general credit manager of Allied Chemical & Dye Corporation, New York. Mr. Fasullo, previously credit manager of the General Chemical Division, has been with the company thirty-six years. His new duties will be supervision of credit sections of all divisions of Allied Chemical, including subsidiaries under a centralized credit and collection department.

Stein, Hall Adds Swope

Stein, Hall & Co., New York, has added Gerald L. Swope to its adhesive department staff. Mr. Swope had been with Continental Can Company from 1947 to 1955 at Van Wert, Ohio, where he served as manager of research in the paper container division. Prior to that he was with Owens Illinois Glass Company and with American Can Company.

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Drugs, Fine Chemicals, Botanicals

The spot market showed some activity last week. Caffeine prices were reduced roughly ten percent in the first change in that item since last September when quotations were boosted. Natural and synthetic caffeine were reduced 35 cents per pound on both the hydrous and anhydrous grades while citrated caffeine was off 20 cents. The principal reason for the reduction was attributed to increased competition from lower priced imported caffeine. This is not a new situation for domestic caffeine producers, it was pointed out. Domestic makers of the compound have been forced to revise their quotations several times in recent years to meet foreign competition. The last such change, however, in September of 1954, saw a reversal in the trend with manufacturers advancing price levels in face of a sizable diminishment in imports during 1954.

There were substantial advances made in two other drug items, both of which are derived from purely natural sources. These were emetine hydrochloride and podophyllum resin. The former was raised $9.55 per ounce while the latter was advanced $2.30 per pound.

Emetine hydorchloride was advanced as a result of the higher cost of raw material, in this instance, ipecac root. Replacement costs on this botanical have been rising steadily and it appeared likely that the market would continue firm for some time. Podophyllum resin was advanced in line with higher mandrake root costs. Reports to date were that the new crop will also be short as was last year's, with the result that quotations will probably rise further for replacement stocks.

Elsewhere in the market, the terrific heat spell which has covered the country over the past several weeks has been very effective in boosting the consumption of citric acid, sodium benzoate and the tartrates to even higher levels than anticipated. Pricewise, sodium benzoate and citric acid were reportedly firm and fairly stable whereas the tartrates could rise further since raw material costs continue to increase.

Acetanilide—Demand for USP acetanilide was reported at routine levels. Consumers were expected to begin anticipating their fall needs shortly since a principal use for this compound is in analgesic compounds, particularly cold preparations. Supplies were adequate and expected to continue.

Production of USP and technical acetanilide amounted to 377,326 pounds in May, 1955, compared to 342,700 pounds in April, according to the United States Tariff Commission.

Acetylsalicylic Acid—Demand for aspirin (acetylsalicylic acid) was seasonally slow last week although consumers were beginning to anticipate needs for replacement of inventory needs. Supplies were adequate despite the strike enforced shutdown of one producer. Prices were steady and expected to hold unchanged.

Production of acetylsalicylic acid as reported by the United States Tariff Commission aggregated 1,413,202 pounds in May compared to 1,216,587 pounds during April of this year.

Bacitracin—Inquiry was reported seasonally routine. Supplies were adequate to cover current requirements and expected to continue. Prices were steady.

Caffeine—The domestic makers of caffeine reduced price schedules 35c. across-the-board last week. Both natural and synthetic caffeines were reduced. The move was attributed in some quarters to competition from lower priced imports. The current schedule was $3 per pound on the anhydrous grade and $2.80 on the hydrous material. Citrated caffeine was reduced 20c. per pound to $2.70. The reduction was the first price change in this item since September last year at which time, prices were hiked.

Emetine Hydrochloride—Emetine hydrochloride was recently advanced $9.55 per ounce over previous levels. The price boost was laid to the greatly increased cost of raw material, in this instance, ipecac root. The advance in emetine was not unexpected to anyone following the recent year's trend in ipecac costs. It appeared likely that shipping quotations would continue at high levels on the root since production costs have risen in line with a general rise in the standard of living in the collection areas.

The new schedules for emetine hydrochloride ranged from $42.50 to $44.50 per ounce, the lower price being for 16 ounce lots and the higher prices, in 4 ounce lots.

Eserine Salts—Demand for eserine salts has increased considerably with the result that raw material difficulties have become increasingly serious. Prices have been advanced to much higher levels than previously reported. The current market quotation was reported at $84 per ounce.

Ethyl Ether—Demand for USP ethyl ether was reported running at routine levels. Prices were steady and supplies adequate to cover trade requirements.

Production of USP and technical ethyl ether combined, totaled 5,591,467 pounds in May, 1955, according to the Tariff Commission compared to 4,987,368 pounds turned out in April.

Molasses—Prices for blackstrap increased ½c. at several Gulf-area terminals. The New Orleans blackstrap price continued unsteady during the week ending July 26, 1955. Prices at that terminal were 10¼-11 (mostly 10½) cents per gallon, with scattered offerings above and below this level. East and West coast prices continued steady and unchanged, with Albany at 13 cents per gallon. Beet molasses supplies are now limited at most points as a good demand continues.

Molasses use in the manufacture of ethyl alcohol has increased steadily since February, reaching 7,600,000 gallons during May. Total alcohol production for May reached a high for the year of 20,800,000 gallons. The trend of molasses usage in this industry during 1955 is about the same as a year ago, with a decided increase during the second quarter. The Cuban Stabilization Institute announced that 90,900,000 gallons of blackstrap has been sold as of June 30, 1955, of which 75,700,000 has been exported. Sales of 220,000,000 gallons of high-test were also announced. Interests in the United States bought 150,000,000 gallons, with the remainder going to the United Kingdom. A total of 216,900,000 gallons had been produced by June 30, 1955, as production continues on a very limited scale.

Neomycin—Inquiry was said to be steady with consumption limited mostly to topical uses especially in combination with other antibiotics. Supplies were reported to be running at adequate levels and expected to continue in the immediate future.

The current price schedule was 60c. per gram in 100 kilo lots with 1 kilo lots quoted at $1.20 per gram.

Penicillin—The current market was seasonally easy, according to trade reports. Upon review, June proved to be a more active month, demand-wise, than usual, for one major producer. July inquiry was seasonally off and it appeared likely that August would follow in the same vein.

Meanwhile, prices ranged anywhere from 4c. to 5c. per 1,000,000 units, depending upon quantity. Consumers were expected to begin building up their fall inventories commencing next month, it was said.

Production of penicillin and salts (bulk material only), aggregated 24,517,461,000,000 International units in May compared to 26,938,119,000,000 units in April, according to the United States Tariff Commission.

Podophyllum Resin—Drought conditions presage a poorer than anticipated yield of mandrake root this year. The result, to date, has been a rise in shipping quotations with a consequent reflection in spot quotations.

Podophyllum resin quotations reflected the rising trend last week in mandrake root with a $2.30 per pound rise in spot quotations. The current market was quoted at $14.25.

Streptomycin—Demand for streptomycin was seasonally slow. Prices were noted

For Late Market Developments, See Page 4

Price Trends

Advanced

Emetine hydrochloride, $9.55 per oz.
Podophyllum resin, $2.30 per lb.

Reduced

Caffeine, 35c. per lb.
Citrated, 20c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Aug. 6, 1954
66.48	66.33	67.14	68.76

(For Current Prices see Page 9)

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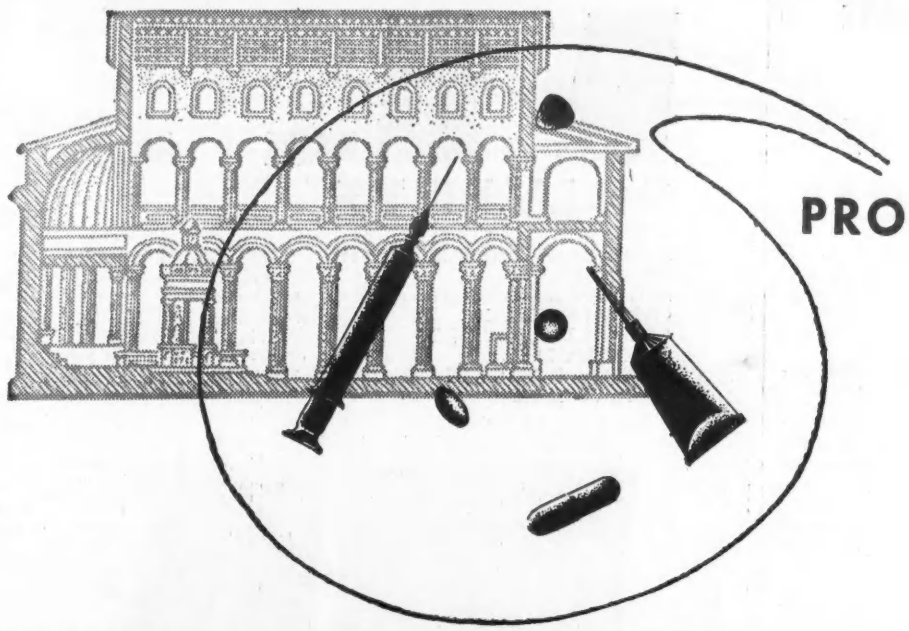

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to have declined somewhat and currently ranged from 7c. to 9c. per gram.

Sulfa Drugs—Demand for sulfa drug compounds has been seasonally affected as has been most drug compounds although inquiry has been reported brisker than usual for this time of year. The sulfas, on the whole, continue to regain popularity particularly in combination uses with other drugs.

Vitamins—The market was quiet last week with no price changes reported. Ascorbic acid continued to move at a seasonally good pace. The commencement of harvesting this month was expected to see a rise in the consumption of ascorbic acid in the frozen food industry, where large quantities are used as an anti-oxidant.

Botanicals

Although dry weather conditions during the past several weeks have caused concern in many areas, sufficient preciptation has reportedly fallen in botanical regions to eliminate anxiety of any general curtailment in production. Trading continued at routine levels. Calabar beans have become virtually unobtainable in recent months. Originally, demand for these beans was quite limited but the sizable increase in demand for eserine salts has placed a correspondingly heavy demand on the raw materials from which they are extracted.

There has been a much smaller demand for lobelia herb this year as compared to 1954. The major reason behind the drop in demand was attributed to the decline in consumption of lobeline sulfate. This salt is the principal ingredient in various preparations which are marketed for the purpose of breaking the so-called "tobacco habit." Last year, a cancer scare connected with tobacco usage resulted in a substantial rise in the demand for such habit-breaking preparations. There was a consequent rise in usage of lobeline sulfate and a shortage of lobella herb which saw prices climb to inflated levels. The situation this year, with consumption of lobeline sulfate way off has eliminated any lobelia supply problems to date. The entire picture could change, virtually overnight, however, if more conclusive proof of the smoking-cancer connection should be offered. Whether such an occurrence will happen, of course, remains conjectural at this time.

Another botanical which has been in short supply this year is mandrake root. The production of podophyllum resin from mandrake root is probably its largest use. It was noted that manufacturers of podophyllum have again raised their prices to cover the increase in raw material costs. There was believed to be a strong possibility that mandrake root prices may go higher in view of the sustained demand from podophyllum resin makers, it was said.

Cascara Sagrada Bark—Demand for cascara sagrada was reported to be running at steady levels last week. Collections of the bark, to date, have been somewhat smaller than desired but, on the whole, the supply situation was a wholesome one.

Licorice Root—There appeared to be little if any change in this commodity last week. Shipments continue to enter the country at a steady rate and the overall supply picture was one of adequacy. Prices were unchanged.

Pennsalt Industries Unit Sales Position to Lane

Victor E. Lane has been named a district sales manager of Pennsylvania Salt Manufacturing Company's industrial chemicals division. With headquarters in Pennsalt's Detroit, Mich., offices, Mr. Lane's territory will include Michigan and northern Ohio. He will succeed Donald Macfarlan, who has returned to the company's home offices in Philadelphia for assignment to the division's general sales staff.

Mr. Lane has been associated with the company since 1939 when Sterling Products Company, of which he was production supervisor, was acquired by Pennsalt. He has since served as sales engineer and product sales manager.

Rene Forster Moves Offices

Rene Forster Company has moved its offices to new headquarters at 432 Fourth avenue, New York. The telephone numbers are LExington 2-0266-7.

FDA Grants Tolerances On Captan, Heptachlor

The Food and Drug Administration has given tentative approval to establishment of a residue tolerance of twenty parts per million for the fungicide chemical captan used on certain fruits and vegetables and a tolerance of 0.1 part per million for residues of heptachlor on certain vegetables.

The commodities involved were listed in the *Federal Register* of July 29 and objections to the order may be filed within thirty days with the hearing clerk of the Department of Health, Education and Welfare. Objections must show with particularity wherein the person filing will be adversely affected by the order, shall specify the provisions of the order deemed objectionable and reasonable grounds for the objections, and may request a public hearing upon the objections.

Aluminum Data Book Is Prepared Covering Process Industries Uses

Aluminum Company of America, Pittsburgh, Pa., has preared an eighty-two page book, "Process Industries' Applications of Alcoa Aluminum." The first part of the book describes process industries applications, including petroleum, petrochemical, organic and inorganic chemical applications. The second part, describing performance of aluminum with chemicals comprises a service dictionary. Design of process equipment is described in the third and last section of the book, which includes sections on inhibitors, coating aluminum, cathodic protection of aluminum and process piping.

Narcotics Investigation Fund Increase Is Allowed by Senate

The senate last week voted an additional $20,000 to its judiciary committee to continue a study of the narcotics problem during the summer recess of congress. The committee previously had been alloted $30,000 for this work.

The investigation is being conducted by a subcommittee under the chairmanship of Sen. Price Daniels of Texas and is intended to touch all phases of the problem, from illegal sales and the efforts of Communists to spread its illegal use in this country, to the administrative work of the government in keeping supplies in proper channels.

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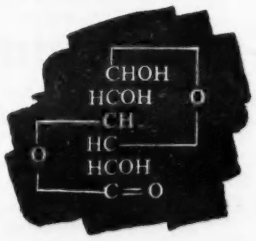

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Pfizer Laboratories Names Three New District Mgrs.

The appointment of three new district managers for Pfizer Laboratories, a division of Chas. Pfizer & Co., Brooklyn, N.Y., has been announced by George Guess, sales manager. Howard P. Hartwell has been appointed manager of the Minneapolis, Minn., district. James H. Stobie has been made manager of the Buffalo, N.Y., district, and Leo A. Spengler has been appointed manager of the Des Moines, Iowa, district.

Mr. Hartwell began his career with Pfizer as a professional service representative in 1951. He was sales service manager in the east central region for Pfizer Laboratories before assuming his present responsibilities. Mr. Stobie previously served as professional service representative in Niagara Falls, N.Y. Mr. Spengler was also a professional service representative before assuming his present position.

Tariff Reduction Sessions

—*Continued from page 3*

land, France, India, Netherlands, Nicaragua and Pakistan. In the case of several countries, the negotiations will involve tariffs on certain products of the chemicals and allied industries. For example, Austria proposes to increase duties on soybean oil, turpentine, penicillin, prepared medicines and p-aminosalicylic acid; France, ammonium nitrate; India, colors and dyes; Pakistan, paints; and Cuba. disinfectants and certain inorganic salts.

Protests from the chemical industry have been made only with respect to Cuba's announcement. Cuba plans to rewrite its tariff schedule 100-D in such a way as to include calcium chloride within the schedule along with calcium hypochlorite and to raise the duty from its present level of $1.05 per 100 kilos to $23.80 per 100 kilos, an increase of 2,166 percent.

Vigorous protests against the increase were registered with the Committee for Reciprocity Information by Columbia-Southern Chemical Corporation, Pittsburg, Pa., Sucro-Blanc, Inc., New York, Pennsalt International Corporation, Philadelphia, Pa., and by Olin-Matheson Chemical Chemical Corporation, New York.

Each pointed out the importance of calcium hypochlorite as a water purifying agent and said that the increase proposed would doubtlessly increase the cost of this operation and have a detrimental effect on the health of the people. The logic of classing calcium chloride as a disinfectant also was attacked.

Atomic Energy Talks

—*Continued from page 4*

European Council for Nuclear Research, Geneva; Pedro Iraolagoitia, secretary general, National Commission of Atomic Energy, Argentina, and Gunnar Randers, director, Joint Establishment for Atomic Energy Research, Norway. Principal speakers at the second session will be William Bennett, president, Atomic Energy of Canada Ltd.; Vojko Pavicic, director, Institute of Nuclear Sciences, Yugoslavia, and Manuel Sandoval Vallarta of the National Institute of Scientific Investigation, Mexico.

Among the papers to be presented will be the following:—"The 1955 Outlook on Nuclear Power Costs," "Problems of Safety and Health," "Nuclear Fuels—Liquid vs. Solid," "Problems of Building and Operating A Nuclear Plant," "Nuclear Transportation—Rail, Ship and Aircraft," "Insurance Problems in Atomic Energy," and "Optimum Reactor Designs for Commercial Power."

Also, "How the New Law Is Working," "Research and Package Reactors and Their Uses," "Reactor Components and Metallurgical Problems," "The Investment Outlook in Atomic Energy," "Radioisotopes as a Research and Production and Production Tool," "Disposal and Utilization of Fission Wastes," "Selling in the Foreign Market," "Evaluation of the United Nations' Atomic Energy Conference" and "Progress Report on the United States Atomic Power Proposals."

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Solvay Vice-Pres.

I. H. Munro has been appointed vice-president of Solvay Process Division, Allied Chemical & Dye Corporation, New York. Mr. Munro joined Solvay's engineering department at Syracuse, N. Y., in 1935. He was appointed assistant chief engineer in 1945 and six years later assumed the duties of chief engineer. Mr. Munro was transferred to the New York office and appointed assistant to the executive vice-president in 1953.

ICI Relocates in New York

Imperial Chemical Industries (New York), Ltd., today moves its executive offices to new quarters on the nineteenth floor of 488 Madison avenue, New York. The telephone number is MUrray Hill 8-1430.

Nylon Fiber Synthetic Paper Being Produced by Reigel Co.

The first commercial run of synthetic paper made wholly from nylon fiber has just been produced by Riegel Paper Corporation, New York, it has been announced. The synthetic nylon paper is almost impossible to tear by hand and is many times stronger than paper made with rags or wood pulp, the company stated. In addition, it is highly resistant to chemical attack, absorbs very little moisture and resists the action of molds, bacteria and light.

AIChE Details Plans

—Continued from page 7

sect Infestation in Flour, Meal or Grain." George White of Vitro Corporation of America, New York, will talk on "The Fuel Reprocessing Factor in Nuclear Power." He will be followed by B. V. Coplan and J. K. Davidson of Knolls Atomic Power Laboratory, Schenectady, N. Y., discussing "Reactor Fuel Processing —A New Chemical Business?" A golf tournament has been scheduled for the afternoon of September 27.

"Growth of the Oil and Chemical Industry by Integration" is the title of the symposium to be held on the morning of September 28, with F. M. Simpson presiding. "Integration in the Oil Industry" will be presented by John G. McLean of the Harvard University Graduate School, Cambridge, Mass. R. B. Schneider of Empire Trust Company, New York, will discuss "Integration in the Chemical Industry." He will be followed by "Growth by Integration, Gulf Oil—a Case History," presented by S. A. Swensrud of Gulf Oil Corporation, Pittsburgh, Pa. The final talk at the morning symposium will be "Growth in Integration, Grace Chemical Company—A Case History," by W. P. Gage, W. R. Grace & Co., New York.

J. F. Thornton will preside over the symposium on "Chemical Engineering Organizations of the Future," to be held on the afternoon of September 28. J. C. Elgin of the school of engineering at Princeton University, Princeton, N. J., will discuss "Educating the Chemical Engineer of the Future." "The Future of Automatic Information Handling in Chemical Engineering" will be discussed by C. R. DeCarlo of International Business Machine Corporation, New York, N. Y. C. Rogers McCullough of Monsanto Chemical Company, St. Louis, Mo., will present "The Future Relationship Between Chemical and Nuclear Engineering. "What May We Expect of Chemical Engineers in the Future?" will be covered by Bruce K. Brown of Pan-Am Southern Corporation, New Orleans, La.

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ALUM—450 bgs, C M C Chemicals Inc, Liverpool
ALUMINUM SULFATE—551 bgs, Bremen
AMINOTRIAZOLE—50 dms, American Chemical & Paint Co, Rotterdam
AMINOGUANIDINE BICARBONATE—10 cks, F L Kraemer, Rotterdam
AMMONIUM ACETATE—2 cks, Interstate Chemical Corp, Bremen
BIFLUORIDE—55 cks, Interstate Chemical Corp, Bremen
CARBONATE—33 cs, Glasgow
10 dms, Glasgow
CHLORIDE—400 bgs, Chemical Manufacturing Co, Liverpool
PERSULFATE—25 dms, Lo Curto & Funk, Bremen
ANILINE DYES—4 dms, Heemsoth Kerner, Liverpool
41 dms, Sandoz Chemical Works, Havre
1 dm, Hensel Bruckmann & Lorbacher, Bremen
2 dms, Hanover Bank, Rotterdam
4 dms, C A Haynes, Rotterdam
23 dms, Carbic Color & Chemical Co, Rotterdam
45 dms, Geigy Chemical Corp, Bremerhaven
26 dms, Hensel Bruckmann & Lorbacher, Hamburg
18 dms, Hensel Bruckmann & Lorbacher, Rotterdam
10 cans, C A Haynes, Hamburg
5 dms, Rotterdam
60 dms, Bremerhaven
ANISE SEED—65 bgs, W F Mahneke, Vera Cruz
200 bgs, Alicante
ARABIC GUM—205 bgs, Hanover Bank, Port Sudan
ARGOLS—9,700 bgs, Tartaric Raw Materials, Brindisi
692 bgs, Tartaric Raw Materials, Algiers
408 bgs, Irving Trust Co, Lisbon
ARSENIC, CRUDE—251 bbls, American Smelting & Refining Co, Tampico
METALLIC—69 dms, Belmont Smelting & Refining Works, Gothenburg
69 dms, Danwill Co, Gothenburg
ASBESTOS FIBER—1,000 bgs, Johns Manville Corp, Lourenco Marques
5,000 bgs, American Asbestos Corp, Lourenco Marques
1,952 bgs, Durban
ASCORBIC ACID—5 dms, D F Young, Yokohama
ASPIDOSPERMA BARK—1 bg, S B Penick & Co, Georgetown
BARIUM SULFATE—1,200 bgs, H C Bugbird, Algiers
BAY OIL—1 dms, Citrus & Allied Essential Oil Co, Dominica
2 dms, Fieuroma Inc, Dominica
BEEF EXTRACT—300 cs, Van Gelderfanto Corp, Montevideo
BEESWAX—59 pkgs, Frank B Ross, Lisbon
98 bgs, Marine Midland Trust Co, Lisbon
102 bls, Chase Manhattan Bank, Lisbon
67 blks, J H Schroder, Lisbon
8 bgs, Gonsives
59 bgs, Havana
149 bgs, Tampico
22 bgs, Vera Cruz
300 blks, Djibouti
130 pkgs, Port Sudan
BENZOIN GUM—5 cs, Brown Bros, Havre
BERGAMOT OIL—8 hf cs, Antoine Chiris & Co, Messina
BILE, OX—8 dms, Wilson & Co, Santos
BISMUTH—36 bxs, Cerro de Pasco Corp, Callao
BLANC FIXE—300 bgs, C J Osborn Co, Rotterdam
BOIS DE ROSE OIL—5 dms, Fritzsche Bros, Paramaribo
5 dms, George Lueders & Co, Paramaribo
2 dms, John D Walsh Co, Paramaribo
BONEMEAL—834 bgs, E J Lang, Rouen
BRUCINE—1 cs, Lo Curto & Funk, Glasgow
BUCHU LEAVES—10 bls, Meer Corp, Capetown
BUTYROLACTONE—113 dms, Hensel Bruckmann & Lorbacher, Rotterdam
CADMIUM—2,425 cs, Ore & Chemical Corp, Venice
270 cs, Antwerp
CALCIUM GLYCEROPHOSPHATE—20 cks, Havre
CANDELILLA WAX—313 bgs, Tampico
CARAWAY SEED—100 bgs, P H Petry, Rotterdam
100 bgs, R T French, Rotterdam
125 bgs, Levy & Levis Co, Rotterdam
CARBON, DECOLORIZING—75 cs, L A Salomon & Bro, Rotterdam
CARNAUBA WAX—556 bgs, F J Henjes, Fortaleza
167 bgs, J H Schroder, Fortaleza
351 bgs, Strohmeyer & Arpe, Fortaleza
56 bgs, Wm Diehl & Co, Fortaleza
278 bgs, M Argueso & Co, Fortaleza
55 bgs, Frank B Ross, Fortaleza
168 bgs, Strahl & Pitsch, Fortaleza
49 bgs, Dura Commodities Corp, Rio de Janeiro
1,195 bgs, D Levin, Salvador
311 bgs, Bankers Trust Co, Rio de Janeiro
1,202 bgs, S C Johnson & Son, Fortaleza
223 bgs, M Schmidt Inc, Fortaleza
112 bgs, M Schmidt, Bahia
313 bgs, Hamburg
CASEIN—1,888 bgs, A J Mills & Co, Wellington
190 bgs, A J Mills & Co, Auckland
560 bgs, P A Dunkel, Auckland
471 bgs, F H Paul & Stein Bros, Auckland
467 bgs, Borden Co, Auckland
550 bgs, Crawford Kish & Co, Rotterdam
800 bgs, Chase Manhattan Bank, Buenos Aires
3,000 bgs, Pacific National Bank, Melbourne
1,400 bgs, Borden Co, Buenos Aires
1,000 bgs, Irving Trust Co, Buenos Aires
3,000 bgs, Tupman Thurlow, Buenos Aires
400 bgs, Carlos A Sayous, Buenos Aires
1,000 bgs, Guaranty Trust Co, Buenos Aires
400 bgs, Buenos Aires
CASSIA—84 bls, P H Petry, Rotterdam
248 bls, Rotterdam
94 pkgs, Rotterdam
CASTOR BEANS—560 bgs, Spencer Kellogg, Cap Haitien
785 bgs, Baker Castor Oil Co, Port de Paix
1,060 bgs, Spencer Kellogg, Saint Marco
2,518 bgs, Baker Castor Oil Co, Salvador
1,300 bgs, Grace National Bank, Bahia
OIL—166 tons, Baker Castor Oil Co, Bombay
300 tons, Woodward & Dickerson, Salvador
300 tons, Recife
CELERY SEED—40 bls, H Marmorek & Son, Marseille
CITRONELLA OIL—15 dms, Lo Curto & Funk, Keelung
19 dms, United Global Corp, Keelung
10 dms, Trubek Lab, Keelung
22 dms, Pacific Vegetable Oil Corp, Keelung
38 dms, Rotterdam
CLAY—600 bgs, Continental Ore Co, Bremen
CLOVE—257 bgs, Djibouti
OIL—14 dms, Djibouti
COALTAR DYES—17 cks, Hensel Bruckmann & Lorbacher, Rotterdam
9 dms, Hensel Bruckmann & Lorbacher, Rotterdam
1 dms, Tar Residuals Inc, Rotterdam
24 dms, Hudson Shipping Co, Hull
16 dms, C A Haynes, Harve
COCHINEAL—45 bgs, H Kohnstamm, Callao
19 bgs, Chemical Bank, Callao
COCOA RESIDUE—1,668 bgs, Hollander Trading Corp, Salvador
COCONUT OIL—424 tons, Lever Bros, Manila
694 tons, Manila
CODLIVER OIL—120 dms, Arista Oil Products Co, Aalesund
COPAL GUM—191 bgs, S Winterbourne & Co, Manila
CORIANDER OIL—1 dm, Magnus Mabee & Reynard, Rotterdam
COTTON LINTERS—138 bls, Cowa Trading Co, Recife
162 bls, Wood Niebuhr Co, Santos
1,668 bls, Lush Cotton Products, Hamburg
CRESYLIC ACID—156 dms, Bakelite Co, Liverpool
250 dms, James E Fox, Liverpool
1,009 dms, H A Gogarty, Liverpool
47 dms, Republic Chemical Corp, Liverpool
CUMIN SEED—44 bgs, Kelly America Ltd, Rotterdam
140 bgs, Rotterdam
CUTTLEFISH BONE—50 cs, Wagner Bros, Lisbon
130 cs, Lisbon
DAMMAR GUM—50 cs, O G Innes Corp, Singapore
DEXTRIN—10 bgs, Chase Manhattan Bank, Rotterdam
800 bgs, Paisley Products, Rotterdam
500 bgs, Guaranty Trust Co, Rotterdam
DIVI DIVI—1,753 bgs, M E Schoen Corp, Curacao
ELEMI GUM—132 cs, S Winterbourne & Co, Manila
FERRIC CHLORIDE—100 dms, Rotterdam
FUEL OIL—106,208 bbls, Paragon Oil Co, Tampico
105,833 bbls, Paragon Oil Co, Puerto La Cruz
209,222 bbls, Asiatic Petroleum Corp, Curacao
364,898 bbls, Shell Caribbean Petroleum Co, Punta Cardon
151,642 bbls, Esso Export Corp, Aruba
GALL—1 ck, Tupman Thurlow, Auckland
1 ck, Auckland
OX—1 ck, Tupman Thurlow, Auckland
1 ck, Tupman Thurlow, Napier
2 cks, Tupman Thurlow, Gisborne
1 ck, Tupman Thurlow, Wellington
1 ck, Tupman Thurlow, Auckland
2 cks, Van Gelder Fanto Corp, Auckland
SHEEP—1 ck, Tupman Thurlow, Wellington
1 ck, Tupman Thurlow, Auckland
2 dms, Melbourne
GELATIN—53 dms, D H Burdett, London
200 bgs, T M Duche & Sons, Havre
98 bbls, Riches Nelson, Bremen
100 bgs, T M Duche & Sons, Rotterdam
GERANIUM OIL—11 dms, National City Bank, Algiers
GINGER—28 bgs, Hismoco American Co, Bangkok
185 bgs, London
GLUE, BONE—563 bgs, Transatlantic Animal By Products Corp, Rotterdam
307 bgs, Transatlantic Animal By Products Corp, Alexandria
GLUESTOCK—270 bgs, Karr Ellis & Co, Liverpool
78 bls, Irving Trust Co, Recife
GLYCERINE—80 dms, C J Shellings & Co, Yokohama
93 dms, North American Continental Co, Alexandria
GRAPHITE—2 kgs, Liberty Fabrics of N Y, Liverpool
250 bgs, C Pettinos, Colombo
1,000 bgs, Asbury Graphite Mills, Hong Kong
82 dms, Subox Inc, Rotterdam
GUANIDINE NITRATE—18 dms, Terra Chemicals Inc, Bremen
GYPSUM—15,932 tons, U S Gypsum Co, Hantsport
5,165 tons, U S Gypsum Co, Little Narrows
11,150 tons, National Gypsum Co, Dingwall
200 bgs, Whittaker Clark & Daniels, Liverpool
300 bgs, L A Salomon & Bro, Liverpool
400 bgs, Hammill & Gillespie, Liverpool
HAARLEM OIL—30 cs, Rotterdam
HERRINGMEAL—900 bgs, Wilbur Ellis Co, Bergen
HO LEAF OIL—5 dms, Norda Essential Oil & Chemical Co, Keelung
IPECAC ROOT—10 bgs, Barranquilla
IRON BLUE—78 dms, Van Oppen & Co, Liverpool
JUNIPER BERRIES—85 bgs, Leghorn
KARAYA GUM—59 bgs, P A Dunkel & Co, Bombay
61 bgs, Thurston & Braidich, Bombay
60 bgs, Tragacanth Importing Corp, Bombay
554 bgs, Stein Hall & Co, Bombay
302 bgs, Morningstar Nicol, Bombay
61 bgs, Colony Import & Export Corp, Bombay
KAURI GUM—120 bgs, Archer Daniels Midland Co, Auckland
KOLA NUTS—280 bgs, John Holt & Co, Accra
626 bgs, Lagos
LACTOSE—100 dms, Lo Curto & Funk, Rotterdam
LAUROYL PEROXIDE—15 cs, R W Greeff & Co, Rotterdam
LEMON OIL—19 dms, Fritzsche Bros, Vera Cruz
31 hf cs, Lo Curto & Funk, Messina
10 hf cs, Bank of London & S A, Messina
5 dms, C T Wilson Co, Coatzacoalcos
15 dms, Vera Cruz
LITHARGE—166 dms, Eagle Picher Co, Tampico
LIVERMEAL—200 bgs, Wessel Duval & Co, Auckland
600 bgs, National City Bank, Timaru
1,120 bgs, Wessel Duval & Co, Timaru
360 bgs, Wessel Duval & Co, Montevideo
LIVER POWDER—20 dms, Tec Chemical Corp, Montevideo
LOCUSTBEAN GUM—400 bgs, Morningstar Nicol, Genoa
336 bgs, Stein Hall & Co, Tarragona
100 bgs, Wm M Allison & Co, Tarragona
40 dms, Uni Gum Corp, Rotterdam
60 bgs, T M Duche & Sons, Rotterdam
100 bgs, T M Duche & Sons, Genoa
25 bbls, J Einstein, Genoa
300 bgs, Morningstar Nicol, Liverpool
600 bgs, Morningstar Nicol, Piraeus
420 bgs, Stein Hall & Co, Valencia
870 bgs, Morningstar Nicol, Portimao
MACE—48 cs, A G Dunn, Rotterdam
14 cs, Rotterdam
MAGNESIUM CARBONATE—60 cs, Chas L Huisking & Co, Liverpool
MANGROVE BARK—780 bgs, Barkey Importing Co, Lourenco Marques
MERCURY—152 flks, L H Keller & Co, Tampico
100 flks, N Y Trust Co, Tampico
MOLASSES—243,658 gals, American Molasses Co, Habana
MONTAN WAX—200 bgs, Dura Commodities Corp, Rotterdam
MUSTARD SEED—110 bgs, C Gulden, Rotterdam
100 bgs, Becker Mayer Seed Co, Copenhagen
MYROBALANS EXTRACT—300 bgs, River Plate Corp, Liverpool
NAPHTHALENE—1,642bgs, Chase Manhattan Bank, Liverpool
327 bgs, Koppers Co, Liverpool
468 bgs, Gallard Schlesinger, Copenhagen
250 bls, Gallard Schlesinger, Hamburg
337 bgs, London
NICKEL ACETATE—25 bgs, Amplex Chemical Co, Bremen
CHLORIDE—50 cks, Buckley & Co, Bremen
2 bbls, Orlex Dyes & Chemical Corp, Bremen
200 bgs, Bremen
SULFATE—250 bbls, Golwynne Chemical Corp, Kotka
167 bbls, Duckley & Co, Kotka
46 cks, Metal & Ore Co, Ltd, Rotterdam
4 bbls, Orlex Dyes & Chemical Corp, Bremen
730 bgs, Bremen
m-NITRO-p-TOLUIDINE—19 dms, A V Berner & Co, Glasgow
NUTMEG—168 bgs, Kellys America Ltd, London
100 bgs, Mincing Trading Corp, Rotterdam
235 bgs, Rotterdam
OAKMOSS—1 cs, Zanadu Manufacturing, Havre
OCOTEA CYMBARUM OIL—22 dms, Ungerer & Co, Itajai
OITICICA OIL—200 tons, International Commodities Corp, Fortaleza
300 tons, Brazilian Industrial Oils, Fortaleza
400 tons, Recife
OLIBANUM GUM—320 bgs, Meer Corp, Aden
OLIVE OIL—75 dms, Mercantile Trust Co, Seville
25 dms, Guaranty Trust Co, Seville
104 dms, Credit Suisse, Barcelona
104 dms, Brown Bros, Malaga
52 dms, Bank of America, Malaga
26 dms, Chase Manhatan Bank, Malaga
100 dms, Trade Bank & Trust Co, Seville
25 dms, American Trust Co, Tarragona
51 dms, Schroeder Bros, Tarragona
52 dms, Credit Suisse, Malaga
130 dms, Chemical Bank, Malaga
50 dms, National City Bank, Tarragona
100 dms, Manufacturers Trust Co, Tarragona
52 dms, J H Schroder, Tarragona
FOOTS—227 tons, Smith Weihman Co, Lisbon
ORANGE PEEL—25 bgs, S B Penick & Co, Cap Haitien
29 bls, Barcelona
PALM OIL—1,381 tons, Balfour Guthrie, Matadi
PALMKERNEL OIL—125 crts, Rotterdam
PALOSANTO OIL—96 cs, C Tennant Sons & Co, Buenos Aires
PAPAIN—19 cs, East Asiatic Co, Dares Salaam
18 cs, Chas L Huisking & Co, Tanga
11 crts, Chas L Huisking & Co, Mombasa
85 cs, Chas L Huisking & Co, Mombasa
65 cs, Mombasa
PAPRIKA—93 bgs, J Weinstein, Alicante
400 bgs, Alicante
PARIS GREEN—403 dms, Chemical Service Corp, Piraeus
PEATMOSS—5,600 bls, J E Bernard, Hamburg
2,000 bls, E J Lang, Hamburg
500 bls, Interocean Chemical & Minerals Corp, Bremen
500 bls, Marine Midland Trust Co, Bremen
1,000 bls, New Amsterdam Import Co, Bremen
800 bls, E J Lang, Bremen
1,000 bls, Phoenix Shipping Co, Bremen
3,235 bls, Premier Peatmoss Corp, Bremen
2,000 bls, Trans Sphere Trading Co, Bremen
850 bls, Holmoon Manufacturing & Trading Co, Rotterdam
2,000 bls, E J Lang, Rotterdam
1,700 bls, National Distributors, Bremen
4,000 bls, J E Bernard, Bremen
500 bls, C Fefard, Bremen
800 bls, Bremen
PECTIN—20 kgs, T M Duche & Sons, Gothenburg
32 kgs, Jafbro Corp, Gothenburg
PEPPER, BLACK—70 bgs, Polak Trading Co, Singapore
70 bgs, A G Dunn, Singapore
160 bgs, Borneo Sumatra Trading Co, Oosthaven
70 bgs, Ludwig Mueller, Singapore
210 bgs, Volkert Bros, Singapore
80 bgs, Cochin
500 bgs, Singapore
RED—150 bgs, Wessel Duval & Co, Lagos
WHITE—42 bgs, C Czarinkow, Singapore
480 bgs, Internatio Rotterdam, Singapore
208 bgs, Far Eastern Agencies, Singapore
70 bgs, A G Dunn, Singapore
140 bgs, Singapore
PETITGRAIN OIL—11 dms, Wessel Duval & Co, Buenos Aires
PETROLEUM, CRUDE—109,637 bbls, Cities Service Oil Co, Tampico
103,989 bbls, Esso Standard Oil Co, Las Piedras
134,257 bbls, Gulf Oil Corp, Puerto La Cruz
101,051 bbls, Hess Inc, Las Piedras
200,000 bbls, Esso Standard Oil Co, Puerto La Cruz
160,000 bbls, Socony Mobil Oil Co, Puerto La Cruz
140,655 bbls, California Oil Co, Bandar
213,201 bbls, California Oil Co, Sidon
PLASTER OF PARIS—240 bgs, Smith & Nephew Inc, Liverpool
POLLACKLIVER OIL—50 dms, Peder Devold Oil Co, Yokohama
200 dms, Yokohama
POLYETHYLENE—2 dms, Standard Development Co, Hamburg
POPPY SEED—100 bgs, Louis Furth, Rotterdam
300 bgs, Transit Import & Export Co, Buenos Aires
POTASSIUM BICARBONATE—60 dms, H A Gogarty, Liverpool
FERROCYANIDE—661 bgs, Haras Co, Rotterdam
GLYCEROPHOSPHATE—3 cks, Havre
PERCHLORATE—150 dms, C Hardy, Harve
POTATO STARCH—200 bgs, Corn Products Refining Co, Harve
1,700 bgs, American Key Products, Rotterdam
25 bgs, Rotterdam
PROPARGYL ALCOHOL—13 dms, Hensel Bruckmann & Lorbacher, Rotterdam
PROPYTHIOURACIL—2 dms, Gallard Schlesinger, Hamburg
PSYLLIUM SEED HUSKS—814 bgs, T M Duche & Sons, Bombay
490 bgs, Prentiss Drug & Chemical Co, Bombay
260 bgs, S B Penick & Co, Bombay
PYRETHRUM EXTRACT—60 dms, S B Penick & Co, Mombasa
120 dms, McLaughlin Gormley King Co, Mombasa
FLOWERS—125 bls, John Powell & Co, Mombasa
25 bls, Fairfield Chemical Division, Puna
PYRITES—236 cks, American Metal Co, Leixoes
QUEBRACHO EXTRACT—547 bgs, Tan American Corp, Buenos Aires
1,388 bgs, River Plate Corp, Buenos Aires
RED IRON OXIDE—1,305 bgs, Landers Segal Color Co, Malaga
RICE STARCH—134 bgs, American Key Products, Trieste
200 bgs, Stein Hall & Co, Alexandria
ROSEMARY LEAVES—34 bgs, Alicante
34 bls, Alicante
ROSEWOOD OIL—2 dms, Givaudan Corp, Belem-Para
RYANIA WOOD—437 bdls, B K Pancoast Co, Port of Spain
SALICYLIC ACID—23 dms, R J Saunders, Rotterdam
SALICYL AZO SULFAPYRIDINE—20 dms, Pharmacia Lab, Gothenburg
SARSAPARILLA ROOT—69 bls, W F Mahneke, Vera Cruz
SASSAFRAS OIL—5 dms, Centflor Manufacturing Co, Keelung
SEEDLAC—158 bgs, East Asiatic Co, Bangkok
1,250 bgs, Mantrose Corp, Calcutta
550 bgs, United Shellac Corp, Calcutta
1,950 bgs, Calcutta
SENNA LEAVES—50 bls Meer Corp, Tuticorin
200 bls, Irving Trust Co, Tuticorin
SERPENTINA ROOT—75 bgs, Peek & Velsor, Bombay
SHARKLIVER OIL—25 dms, Collectt Week Corp, Keelung
20 dms, Arista Oil Products Co, Yokohama
100 dms, National Bank of Asia, Melbourne
SHELLAC—30 bgs, Dings & Schuster, Bremen
14 bgs, F H Paul & Stein Bros, Hamburg
27 bbls, F H Paul & Stein Bros, Rotterdam
50 bgs, Calcutta
SIENNA—100 bgs, Chase Manhattan Bank, Larnaca
SILICA GEL—53 bgs, Rotterdam
SOAPBARK—102 bls, S B Penick & Co, San Antonio
SODIUM ALGINATE—20 ctns, T M Duche & Sons, Oslo
BICARBONATE—998 bgs, Chemical Manufacturing Co, Liverpool
CYANIDE—180 dms, American Cyanamid Co, Glasgow
320 dms, Chemical Manufacturing Co, Glasgow
55 dms, C Hardy, Harve
SPEARMINT LEAVES—17 ctns, S B Penick & Co, Alexandria
SPERM OIL—230 tons, Pisco
STARCH—340 bgs, Morningstar Nicol, Rotterdam
TALC—400 bgs, Whittaker Clark & Daniels, Marseille
TAMARINDS—75 bbls, Murbas Trading Co, Barbados
4 cks, Murbas Trading Co, Dominica
14 bbls, Murbas Trading Co, Dominica
38 bbls, Murbas Trading Co, St Lucia
10 bbls, Malko Bros, Antigua
56 bbls, S B Penick & Co, Barbados
TAPIOCA FLOUR—1,500 bgs, Borneo Sumatra Trading Co, Bangkok
500 bgs, Stein Hall & Co, Bangkok
680 bgs, Geismar & Co, Bangkok
5,000 bgs, Stein, Hall & Co, Itajai
833 bgs, Harry F R Dolan, Itajai
TEA OF MATTE—80 cs, Meer Corp, Parnaqua
THYME LEAVES—14 bgs, S B Penick & Co, Marseille
55 bls, H Marmorek & Son, Marseille
200 bgs, Alicante
THYROID POWDER—5 cs, Van Gelder Fanto Corp, Hamburg
TONKA BEANS—25 cs, Marklin Chemical Corp, Rio de Janeiro
TRIAKYLTHIOPHOSPHATE—41 dms, Chemagro Corp, Hamburg
TRICHLOROETHYLENE—250 dms, Chemical Manufacturing Co, Glasgow
ULTRAMARINE BLUE—40 bbls, Esca Agency, Rotterdam
UMBER—100 bgs, Chase Manhattan Bank, Larnaca
UREA, SYNTHETIC—4,000 bgs, Chemical Manufacturing Co, Hull
VANILLA BEANS—71 cs, Djibouti
2 cs, Mombasa
VETIVER OIL—4 dms, Ufinindo International Corp, Djibouti
VITAMIN C—1 cs, Barth Levitt Products, Genoa
WATTLE EXTRACT—1,725 bgs, Barkey Importing Co, Mombasa
WHITING—400 bgs, J H Schroder, Venice
1,768 bgs, Smith Chemical & Color Co, Hull
WOOLFAT FATTY ACIDS—25 dms, Hummel Chemical Co, Bremen
WOOL GREASE—38 cs, Chemical Bank, Liverpool
5 dms, Luttigheid & Eelsingh, Rotterdam
1 cs, Goldschmidt Chemical Corp, Bremen
100 dms, N I Malmstrom, Bremen
100 dms, N I Malmstrom, Liverpool
98 dms, N I Malmstrom, Nagoya
55 dms, N I Malmstrom, Rotterdam
100 dms, Hummel Chemical Co, Bremen
53 dms, Robinson Wagner Co, Dublin
51 dms, Olson Sales Agency, Port Adelaide
80 dms, Chase Manhattan Bank, Melbourne
YLANG YLANG OIL—2 kgs, Fritzsche Bros, Havre
ZINC CHLORIDE—5 dms, Interstate Chemical Corp, Rotterdam
SULFIDE—300 bgs, C J Osborn Co, Rotterdam

Baltimore

LITHARGE—100 dms, Tampico
TAPIOCA—317 bgs, Manhattan Paste & Glue Co, Itajai
FLOUR—1,667 bgs, Harry F R Dolan, Itajai

Boston

BONE—383 bgs, International Packers Ltd, Rio Grande
949 bgs, International Packers Ltd, Santos

Norfolk

TAPIOCA FLOUR—3,340 bgs, Morningstar Nicol, Bangkok

Philadelphia

BONEMEAL—628 bgs, Buenos Aires
CASEIN—500 bgs, F H Paul & Stein Bros, Montevideo
CHESTNUT EXTRACT—1,300 bgs, Chase Manhattan Bank, Naples
CODLIVERMEAL—1,000 bgs, Albumina Supply Co, Bergen
CORN OIL—125 tons, Antwerp
CRESYLIC ACID—200 dms, Rotterdam
GYPSUM—200 bgs, Hammil & Gillespie, London
NAPHTHALENE—350 bgs, Chase Manhattan Bank, Hamburg
1,666 bgs, Rotterdam
3,000 bgs, Gydnia
OLIVE OIL—53 dms, Phila National Bank, Malaga
PEATMOSS—1,750 bls, E Dunwoody, Bremen
2,020 bls, Van Zanten & Co, Bremen
300 bls, Shute Corp, Bremen
1,800 bls, Rotterdam
PETROLEUM, CRUDE—106,125 bbls, Atlantic Refining Co, Caripito
107,344 bbls, Atlantic Refining Co, Las Piedras
214,544 bbls, Atlantic Refining Co, Bandar
14,921 tons, Atlantic Refining Co, Banlas
129,573 bbls, Atlantic Refining Co, Puerto La Cruz
119,623 bbls, Atlantic Refining Co, Pamatacual
200,007 bbls, Gulf Oil Corp, Mena Al Ahmadi
206,958 bbls, Gulf Oil Corp, Bandar
180,116 bbls, Gulf Oil Corp, Puerto La Cruz
128,046 bbls, The Texas Co, Las Piedras
149,109 bbls, The Texas Co, Puerto La Cruz
210,457 bbls, The Texas Co, Sidon
122,849 bbls, Socony Mobile Oil Co, Covenas
111,304 bbls, Socony Mobil Oil Co, Amuay Bay
QUEBRACHO EXTRACT—806 bgs, Olson Sales Agency, Buenos Aires
2,503 bgs, Buenos Aires
RUTILE SAND—29,892 bgs, Brisbane
SHELLAC—100 bgs, Calcutta
SILICID ACID—2,688 bgs, Godfrey Cabot, Hamburg

San Francisco

CALCIUM CHLORIDE—200 dms, Light Work Products, Antwerp
CLOVE—12 cs, H M Newhall & Co, Penang
COPAL GUM—140 bgs, H W Peabody & Co, Manila
COPRA—504 tons, Cargill Inc, Masbate
360 tons, Cargill Inc, Cebu
500 tons, Cargill Inc, Zamboanga
140 tons, Cargill Inc, Jolo
CAKE—3,760 bgs, Lu Do & Lu Ym Corp, Cebu
CUBE POWDER—400 bgs, Prentiss Drug & Chemical Co, Callao
FISHLIVER OIL—100 dms, Interocean Chemical & Minerals Corp, Yokohama
FISHMEAL—2,200 bgs, Irving Trust Co, Antofagasta
MARJORAM—20 bls, H M Newhall & Co, Marstille
NUTMEG—50 bgs, Wheeler & Miller, Port of Spain
75 bgs, Ziel & Co, Port of Spain
PALM OIL—395 tons, Dorward & Sons, Belawan Deli
PEPPER, BLACK—16 bgs, Internatio Rotterdam, Alleppey
245 bgs, Singapore
WHITE—32 bgs, Mincing Trading Corp, Singapore
64 bgs, Internatio Rotterdam, Singapore
28 bgs, Singapore
PETROLEUM, CRUDE—282,675 bbls, Tidewater Associated Oil Co, Sungai Pakning
SALICYLIC ACID—20 dms, U S Factors Ltd, Rotterdam
SODIUM NITRATE—3,282 tons, Guaranty Trust Co, Tocopilla
TAPIOCA FLOUR—2,251 bgs, American Key Products, Djakarta
WHITING—2,000 bgs, Antwerp

Polio Compromise Bill Up for Signature

—*Continued from page 3*

ation next year and make whatever changes may be necessary.

Representative J. Percy Priest of Tennessee, chairman of the house interstate commerce committee, explained that the legislation envisions a three-shot program.

Meanwhile, the Department of Health, Education and Welfare announced last week that the voluntary plan for allocation of polio vaccine, under which the states and territories will have the responsibility for its distribution, both through commercial and public agency channels, has gone into effect. It became effective immediately following announcement by the National Foundation for Infantile Paralysis that its immediate summertime needs have been met and that it would not require all of the last batch of vaccine released for use.

In making the announcement, the department emphasized the voluntary nature of the plan and the key responsibility of the states in the intra-state operation of the program.

Under the voluntary plan each new batch of the vaccine will be allocated among the states as it becomes available. The states will then determine what proportion of their share is to go to public agencies, such as local health departments, and what amount will be distributed by the manufacturers through normal drug channels for use by private physicians.

Allocations to the states will be based on each state's proportion of children in the initial priority group, excluding children who have already been immunized under the program of the National Foundation for Infantile Paralysis. The current priority age group of five through nine was recommended by the National Advisory Committee on Poliomyelitis Vaccine in May. For the country as a whole, these children are in the age group most susceptible to poliomyelitis.

The voluntary plan follows the proposals for equitable distribution of the vaccine approved by President Eisenhower last May. Its details were developed during several months of close collaboration among the National Advisory Committee, the Public Health Service, the Governors' Poliomyelitis Advisory Committee, the Association of State and Territorial Health Officers, manufacturers of vaccine, representatives of the medical and pharmaceutical profession, the drug industry, and other interested groups.

Tinless Organic Solder Made by Dewey & Almy

A tinless organic solder that shows promise of relieving the container industry of its dependence on imported supplies of tin has been announced by the Dewey & Almy Chemical Company, division of W. R. Grace & Co., Cambridge, Mass.

According to D. L. Shanklin, general manager of container and chemical specialties, "The new bonding agent is a thermo-plastic organic material having excellent adhesion to plain metal as well as to most of the interior lacquer coatings used in cans today. It also has high strength," he reported, "testing an average of fifteen pounds stronger than tin-lead solders."

Sterling Drug Promotes Two Officials in Canada

Frederick A. Tilston, vice-president in charge of sales for Sterling Drug Mfg., Ltd., has been appointed to the newly-created position of vice-president in charge of marketing and customer relations. It was also announced that Arch J. Galloway, assistant sales manager, has been appointed general sales manager.

Food Additives Measure

—*Continued from page 3*

bills are the result of a number of years of work by representatives of food industry groups, leading members of the food, drug and cosmetic law bar, and the MCA, and the introduction of these two bills makes their content readily available for analysis and consideration.

"We believe that this bill offers the best solution we have yet seen for providing effective safeguards for the use of new additives in food.

"We would like to assure Mr. O'Hara and his fellow members of the house interstate and foreign commerce committee that all bills bearing on the use of new food additives will receive our careful attention, with the hope that when hearings are held legislation will be approved by congress which will fully protect the public health, and, at the same time assure that continued advances will be made in food research."

Chemical Locating Service Formed

Chemsearch, New Rochelle, N. Y., has been organized by L. E. Mackay and E. A. Falco as a mail service for supplying sources of organic chemicals. Messrs. Mackay and Falco were formerly with Wellcome Research Laboratories.

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The new Oronite Isophthalic plant is now well under construction with completion date scheduled for October. It will pay you to investigate Oronite Isophthalic *now*.

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Advanced
None
Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Aug. 6, 1954
97.18	97.18	97.18	96.61

(For Current Prices see Page 9)

Synthetic ester gum prices were advanced by a maker, who cited the recent increases in raw materials. It was noted that rosin, phenol and tung oil, among other materials, have increased. In addition, it was pointed out that steel shipping container costs have gone up, and that increased labor costs for production and handling have been added to the makers' expenses. Continued strength in basic raw materials was expected to keep price schedules firm over the weeks ahead.

Demand for pigments has held up quite well, considering the season. A large-scale decline in buying interest has not materialized. Many users, in fact, appeared to be using the present period, when their plants were closed for vacations, to build up their inventories in preparation for their fall production schedules. Lead and zinc pigments were quite steady and firm, in response to the metal. The planned closing of automobile makers' assembly lines in preparation for the new models, and the somewhat earlier-than-usual arrival of new cars, was expected to play an important part in the showing made by pigments during the last half of the year.

Demand for dioctyl phthalate was described as varying from good to quite good, depending on the source, with the consensus of opinion being that the market was a good deal healthier than during last summer. Prices appeared to be firming slightly in some directions, but were unchanged from listings offered earlier. Other plasticizers also moved in good volume at steady quotations.

The market for shellac displayed a faint sign of weakening at the source, but the easiness was not of sufficient strength or duration, as yet, to indicate that lower prices, locally, would be encountered. Buying interest in this country was described as fairly good by most in the trade. Casein prices continued to firm, and the latest advances at the source kept the delivered prices to 24 cents to 24½ cents per pound. Lack of competition, plus reduced stocks, kept Argentine sellers in a bullish position.

Prime Pigments

Cadmium Colors—Users of cadmium sulfoselenide reds found shipment quite difficult to obtain, and were forced to wait for their supplies. The makers have been unable to obtain their full requirements so long as the government has been buying selenium heavily, and have watched the price of the metal firm steadily. Recently the price of the metal has climbed to a spot well over the quotation on which prices for selenium-containing colors have been based earlier, with the result that some sources in the industry expected advances to be worked out sometime in the months ahead. Just when the increases would be announced, if they did materialize, was uncertain, but it appeared quite likely that the high cost of the metal could not be absorbed permanently.

Carbon Blacks—Daily average shipments of carbon blacks were 2 percent higher in June than during the previous month, the Bureau of Mines reported. Stocks declined 7,000,000 pounds during the month, and have been reduced 75,000,000 pounds since the first of the year.

The following figures, in thousands of pounds, indicate production, shipments, stocks, and exports of carbon black for June, 1955 with figures for May, 1955, and June, 1954, reported for comparison.

Production

	Furnace	Contact	Total
June, 1955	116,398	30,238	146,636
May, 1955	115,877	30,559	146,436
June, 1954	82,082	31,170	113,252

Shipments

	Furnace	Contact	Total
June, 1955	116,873	36,697	153,570
May, 1955	118,041	37,073	155,114
June, 1954	91,912	34,687	126,599

Stocks

	Furnace	Contact	Total
June, 1955	107,933	132,056	239,989
May, 1955	108,408	138,515	246,923
June, 1954	149,847	218,738	368,585

Exports

	Furnace	Contact	Total
June, 1955	*	*	*
May, 1955	21,165	16,256	37,421
June, 1954	17,491	15,950	33,441

Lead Pigments—Demand was sustained quite well for lead pigments, although shipments were under those of thirty days back, it was stated. The falling-off in consumption was about in line with the usual summer trend, which usually sees sales to paint outlets lessened. Usage of lead oxides in the automobile battery industry continued at an active rate. Price schedules were undisturbed throughout the week.

Synthetic Iron Oxides—Very little decline in sales demand has been noted, arising from the advent of the summer season, it was reported in the industry over the past week. Consumers have continued to take material in good amounts. Supplies were quite adequate for present needs, and prices were unaltered.

Titanium Pigments—The pressure on makers of titanium pigments continued, as market demand kept well abreast of the industry's capacity to supply. Production found a ready market, as neither producers nor consumers were able to build up extensive inventories.

Zinc Pigments—With the price of the metal remaining firm and steady, zinc pigments followed suit and were unchanged during the past week. Consumer interest has been quite active, and it was expected that the month of August would make a good showing when sales figures were known and compiled, judging by the start it has made.

Synthetic Resins

Alkyds—The market for alkyds has shown no great effect from the seasonal decline in demand, although consumer interest has been slightly easier. Demand for industrial finishes has continued at a good level. The soybean oil market has continued steady, with buying on the quiet side because of the closeness of new crop oil.

Ester Gums—Prices were advanced by one maker because of raw material cost increases. In speaking generally of its announced increases in synthetic resins, the manufacturer noted that rosin, phenol and tung oil, among other materials, have increased. In addition, it was pointed out that steel shipping container costs have gone up and that increased labor costs for production and handling have been added to the makers' expenses. The revised quotations for ester gums ranged upward from 15¾c. per pound, with the advances limited to ¼c. per pound for each grade increased. From other sources, both the gum-rosin and the wood-rosin types were steady at previous listings. Continued strength in basic raw materials was expected to keep price schedules firm over the weeks to come.

Lacquer Materials

Di-Iso-Octyl Phthalate—Sales have kept pace with producers' expectations and have shown little if any slackening over the past weeks. Supplies were considered adequate to care for all present market needs. Shipments were being held at unchanged quotations.

Dioctyl Phthalate—Demand has been described as varying from good to quite good, depending on the source, and it appeared evident that all producers found the market a good deal healthier than during last summer. The decline in sales, during the time when consumers are either closed or slowed down for vacations has been less than usual. Some makers continued to feel they could handle very little additional business than they already had. Prices appeared to be firming slightly in some directions, but were unchanged from listings offered earlier.

Tricresyl Phosphate—The present price structure of tricresyl phosphate was described in the industry as quite firm. Listings remained steady throughout the past week. Shipments moved well in all consuming directions, it was stated by informed sources.

Natural Resins

Copal, Dammar Gums—Congos were steady on the local market, with no advances in prices materializing as yet to reflect the recent firming at the source.

For Late Market Developments, See Page 4

Dealers felt that because of the higher costs of replacement material, however, some advances on the local scene would be forthcoming, once the higher-priced goods arrived in dealers' hands and goods received earlier were disposed of.

Offers of Manila grades of Copal have been a bit on the scant side, but all other grades were reported available in ample amounts and no shortages were in evidence. Demand for spot goods eased during the month of July, due to the large number of consumers who closed their plants, except for deliveries. However, contracting for future needs has been active and dealers expected no more than a temporary lull in buying activity.

Shellac—The market remained firm for the most part, but displayed a faint sign of weakening as holders in Calcutta eased their expectations fractionally. The slight reversal in the otherwise strong trend did not extend too deeply as yet, and dealers in this country stated that it would not affect the resale price of material here. However, it did indicate that the edge may be off the strong market that has been witnessed over the recent months. Buying interest in this country was described as fairly good by most in the trade.

Bleached material was steady at 58c. per pound in 1,500 pound lots, in bags, while refined was offered at 66c. per pound on the same basis.

Miscellaneous Materials

Casein—Recent purchases by European countries of Argentine material have helped reduce inventories in that country. Sources agreed that holders' stocks in that country were quite low, which helped account for the very firm attitude maintained on the part of shippers. The fact that some two months remained before new production would be ready was another important factor.

Prices of Argentine material on a delivered, New York, duty-paid basis ranged from 23½c. per pound to 24½c. A number of consuming mills were said to be reaching the low mark in their inventories, which could be another important contributing factor in the present strong market.

Copper Naphthenate — Material has been moving in fair volume, it was reported during the week, but has not been described as in tight supply. Prices were considered quite firm at present levels.

Zinc Naphthenates—Producers reported experiencing a decline in demand following the summer seasonal pattern. As yet, the let-up in buying has not been too great, and the trend was expected to be reversed in a matter of another three to four weeks. Prices were quite firm because of the strength in zinc metal quotations and in related zinc chemicals.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. July 29	Mon. Aug. 1	Tues. Aug. 2	Wed. Aug. 3	Thur. Aug. 4
Drums—					
H	...	...	$8.50	...	...
I	$8.40	...	...	...	...
K	8.40	...	8.47	...	...
M	8.40	...	8.45§	$8.50	$8.45
N	8.65	...	8.55	...	8.55
WG	8.48§	$8.55	8.53§	8.55§	8.60
WW	8.55	8.60	8.59§	8.60	8.625§
Bags—					
G	8.45	...	8.45	...	...
K	8.40	...	8.45	...	8.45
M	...	...	...	...	8.45
N	...	...	...	...	8.47§
WG	...	...	8.52	8.56	...
WW	8.50	...	...	...	8.85

Tankcars (for week ended July 29)—

Sales, USDA

3,037* 1,019* 3,350* 1,985* 3,067*

New York

(per 100 lbs., c.l., Friday)

B through M, $9.45; N, $9.50; WG, $9.55; WW, $9.60.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.55	.559	.554§	...	.558§
Sales	4,000¶	6,000¶	60,000¶	...	14,600¶

New York, Friday, per gal. 7 lbs., tankcars, 63½c., l.c.l. 75c.

* Drums equivalent. ¶ Gallons. § Average price.

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Industry's Relationships to Economy Told

—Continued from page 5

book, the 1947 data are arranged in an input-output analysis to show the relation of the chemical group and its component industries to the other thirty-one groups. For each of the group's sixteen industries, bar graphs and other charts plot the dollar volume and percentage of sales and purchases to and from other industries, both inside and outside the group, as well as sales to ultimate consumers.

Present Sales Position Indicated

President position can be estimated by use of production indexes. Production of chemicals and allied products in 1947 was $13,935,300,000. If this figure is multiplied by the ratio of the 1954 Federal Reserve Board production index value to the 1947 production index value (148/97), the result, $21,300,000,000, represents the value of 1954 production in 1947 dollars. In 1954 dollars, the figure would be about $22,400,000,000.

From 1947 to 1954, the industries within the group have grown at different rates, ranging from a high of 84 percent for plastic materials to only 8 percent for soap and allied products. The use of a production index then provides a method of estimating the 1954 purchases of a specific industry.

The fertilizer industry, for example, bought materials worth $87,800,000 from the inorganic chemicals industry in 1947. Applying the ratio and adjusting for price changes, it can be estimated that like 1954 purchases totaled about $116,000,000. This estimate will vary from actual purchases to the extent that production specifications have changed and engineering improvements have been made.

Cotton Industry Sales Told

Cotton production rose to 12,511,000 bales in 1954 from 11,860,000 bales in 1947, so fertilizer consumption by cotton growers might be estimated to have risen a corresponding five and one-half percent. With a similar production growth percentage for other fertilizer consuming industries, an estimate can be made of the relative standing of present markets.

The 1947 data indicate that chemicals and allied products was the nation's seventh largest industry group, and was its own best customer, selling 27.6 percent of its output within the group.

Among major groups purchasing from the chemicals industry were food and kindred products, who bought 8.56 percent of total chemical production; textile mill products, 5.04 percent; construction, 4.57 percent; agriculture, 4.56 percent, and rubber products, 4.52 percent.

Following the chemicals group as its own biggest supplier, principal purchases in 1947 were from agriculture, 6.85 percent; food and kindred products, 5.04 percent; energy (natural gas, petroleum, coal tar products), 3.72 percent; transportation, 2.72 percent; and paper and allied products, 2.74 percent.

Soap Industry Sales

The soap and allied products industry sold 63.61 percent of its 1947 product to the ultimate consumer, largest such sales in the chemicals group. Lowest final user sales industry within the group was synthetic fibers with 2.74 percent. Biggest industrial sales were 97.2 percent by synthetic fibers; lowest was drugs and pharmaceuticals' 30.89 percent. Within its own group, organic chemicals was the biggest buyer with 15.8 percent of its purchases made within the group. Synthetic rubber did relatively little intra-group buying.

The chemicals group is primarily composed of intermediate industries which sold an average of 53.42 percent of their product to other industries in 1947, and only 18.97 to the ultimate consumer.

Interdonati Names Fisher

Bernard M. Fisher, formerly assistant director of the special chemical division of Winthrop-Stearns, Inc., has become associated with Henry Interdonati, Inc., New York, as manager of the special chemicals department. In this post, Mr. Fisher will handle sales of domestic and imported pharmaceuticals, fine and industrial chemicals. Mr. Fisher joined Shepard Chemical Corporation, New York, before going to Winthrop-Stearns seven years ago.

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Peanut Price Support Figures Are Announced

Price support levels by types and areas for 1955 crop peanuts have been announced by the Department of Agriculture. The prices are based on a national average support price of $244.80 per ton, which is 90 percent of the August 1, 1955, parity price of 13.6 cents per pound. This minimum national average support level was previously announced by the Department on May 13, 1955, on the basis of the parity price at that time.

The base grade support price by types per ton of 1955 crop quota peanuts will be:—

Virginia—$236 per ton for Virginia type peanuts containing 65% sound mature kernels. To be classed as Virginias, peanuts must have a "Fancy" content of at least 30 percent.

Runners—$220 per ton for runner type peanuts containing 65% sound mature kernels.

Spanish—$241 per ton for Spanish type peanuts produced east of the Mississippi river, containing 70% sound mature kernels, and $237 per ton for Spanish type peanuts produced west of the Mississippi river, containing 70% sound mature kernels.

Valencias—The support price for Valencia type peanuts suitable for cleaning and roasting will be the same as for Virginia type peanuts. The price for other Valencia type peanuts will be the same as for Spanish type peanuts in the same area.

Ether Preservative Used

A trace quantity of preservative is now being added to "Ether Anhydrous Ar," manufactured by Mallinckrodt Chemical Works, St. Louis. Only 0.05 ppm of sodium diethyldithiocarbomate is used to stabilize the anhydrous ether. It inhibits the formation of aldehyde and peroxide, thereby reducing the working hazards and protecting the high quality of the ether, according to the company.

Union Pharmaceutical Appoints

Joseph R. Prill, formerly assistant sales manager of Union Pharmaceutical Company, Bloomfield, N.J., has been appointed field sales manager of the company, a subsidiary of Schering Corporation. Mr. Prill joined Schering in 1936 and became assistant sales manager of Union Pharmaceutical in 1951.

Obituaries

Edgar M. Clark

Edgar M. Clark, co-inventor of the first successful cracking process in the petroleum industry, and former Standard Oil Company vice-president, died July 31 in Phoenix, Ariz. He was eighty-five years old.

Mr. Clark joined Standard Oil in 1890 and become associated with the late Dr. William M. Burton in the refining of oil. He assisted Dr. Burton with the invention of the Burton pressure still, a cracking process which in 1913 ended a threatened shortage of gasoline and completely changed refinery processes in the oil industry.

Donald L. Harper

Donald L. Harper, former vice-president and director of Standard Oil Company of New Jersey, died August 1 in Fort Lauderdale, Fla. He was seventy-seven years old. In 1928 he became president of the Standard Oil Export Corporation, a subsidiary, and in 1935 he was elected to the parent company's board of directors.

Charles A. Myers

Charles A. Myers, retired president of Dodge & Olcott Company, New York, died July 29 in Englewood, N. J. Mr. Myers was with Dodge & Olcott forty years, having joined the company in 1908. He retired in 1948.

Richard S. Reynolds, sr.

Richard Samuel Reynolds, sr., chairman of the board of Reynolds Metals Company, died July 29 in Richmond, Va. He was seventy-three years old. He was also chairman of the boards of Reynolds Mining Corporation, Reynolds Reduction Company, Reynolds Research Corporation, Reynolds Alloy Company, Reynolds Jamaica Mines, Ltd., and Reynolds Surinam Mining Corporation.

Earl Barger Putt, a member of Seil, Putt & Rusby, consulting chemists, New York, died July 30 in Englewood, N. J. He was sixty-nine years old.

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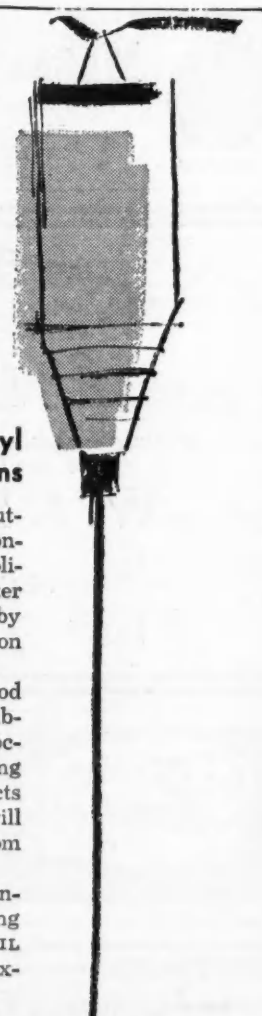
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*Reference: Vol. XVIII, No. 4, October, 1954, Association of Food & Drug Officials of the United States.
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Essential Oils, Aromatics, Flavorings

The mint oils continued to strengthen last week following reports that shippers at Midwest warehousing points had found it necessary to up prices paid to basic producers. Spearmint oil quotations in the spot market were raised 75 cents, bringing the market into a more realistic price position in view of rising costs at the prime source. Peppermint oil prices were also higher at collection points but the spot market, in general, has not reflected the increase in replacement costs. Dealers have been reluctant to buy extensively at current prices asked, it was said.

Sandalwood oil continued in extremely tight supply with prices remaining at previous levels. There was believed to be very little oil left at the low end of the price range. The outlook for the immediate future was for a continued shortage with prices expected to reach a nominal stage.

Aside from the foregoing items, the market was quiet. Citrus oils continued to move in substantial quantities into consumers' hands. The extremely hot weather which has blanketed the country during the past month has resulted in a higher than normal demand for citrus and other flavoring oils, it was noted.

The seeds and spices market was without feature last week. The number of price changes was unusually small while trading was confined principally to jobbing interests. Sesame seed continued in active inquiry with spot stocks still tight. White and black peppers were reduced, the former 1 cent and the latter, 1½ cents per pound. The gingers were quiet although there was a 1 cent rise in Cochin and Sierra Leone qualities attributed to local interest. Jamaica grades of ginger were steady.

Mexican anise seed was reduced 1 cent while French and Indian celery seeds were down 1 cent and ½ cent, respectively. Some qualities of poppy seed were also noted to have eased, pricewise.

Price Trends

Advanced

Ginger, Cochin, 1c. per lb.
Sierra Leone, 1c. per lb.
Oil, spearmint, 75c. per lb.

Reduced

Anise seed, Mexican, 1c. per lb.
Celery seed, French, 1c. per lb.
Indian, ½c. per lb.
Pepper, black, 1½c. per lb.
white, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Aug. 6, 1954
134.61	134.54	135.88	137.90

(*For Current Prices see Page 9*)

Essential Oils

Bergamot — There was no essential change in this item last week. Prices were steady and supplies were adequate to cover consumer needs. The current market ranged from $8.50 to $11 per pound.

Bois de Rose—The spot market was somewhat easier last week in face of slow consumer inquiry. Supplies were ample to cover current needs and prices steady.

Cedarwood—The spot market was quiet, on the whole. Prices ranged from 70c. to $1. Supplies were adequate to cover present needs while inquiry was slow.

Citronella—Reports of drought weather in Formosa in addition to the omnipresent danger of war in that area have combined to keep this market at high levels despite some reported resistance on the part of consumers to current high quotations. Carryover from last year's production was not believed to be large and it appeared likely that the market will remain firm for some time in light of the aforementioned factors. Prices have varied very little in recent weeks and current shipment prices virtually preclude any lowering of the spot market. Some observers foresaw a continuation of present market conditions for some time.

Geranium—Although the spot market has been holding unchanged for several weeks, it was the trade concensus of opinion that prices were slated to advance in the not too distant future. Reports from Madagascar and Algeria indicated a short crop this year and the almost virtual certainty of higher prices to come. Drought conditions in Algeria were effective in causing a 30 percent decline in geranium oil production this year and it was known that production of Bourbon oil was also considerably behind normal yields.

Ginger—Despite the high and rising costs of ginger root, spot prices on ginger oil have been stable for some time since dealers were believed to have fairly large stocks of oil made from lower priced raw material. Eventually the market will be forced to reflect the higher replacement costs since it was believed that ginger root prices would continue high for some time into the future.

Lime—Despite the heavy consumption of citrus flavoring oils this past month, the situation in lime oil remains weak. It was anticipated, however, that flavoring extract manufacturers might begin to rebuild their depleted inventories during August, a fact which could result in a stronger market in the citrus oils and in particular, lime oil, which has been more or less neglected, to date.

Peppermint—The spot market was reported to be showing increased signs of strength. Reports from the country were that shippers have been paying growers as high as $7 per pound. Adding normal profits, the spot market may jump to $8 or even more in the very near future, it was said. Sellers on spot have been holding back on buying at current country prices. Whether they can continue to wait for a possible decline in origin prices was a matter for conjecture. Reports have been that frosts earlier this year damaged the crop. To what extent was unknown, however, if true.

On the other hand, demand is very considerable. The usage in this country is growing steadily. Not only is the use of products which are flavored with peppermint steadily growing on a per capita basis, but the population is on the increase which accounts for steadily increasing sales.

With the easing up of the import restrictions by the United Kingdom a new market is open once more, and in 1954 201,198 pounds were exported from the U.S.A. to Great Britain.

Sandalwood—Spot stocks were reportedly virtually exhausted. There was very little material at $17.50 with most holders asking as high as $19 per pound.

Spearmint—The spot market advanced 75c. in recent weeks in face of reports that country prices were being maintained at high levels. The current market ranged from $4.75 to $5.35 per pound.

Aromatic Chemicals

Anethol—Demand for anethol continued at steady levels. Supplies remained on the tight side while prices were unchanged.

Production of anethol aggregated 934,000 pounds during 1954 according to a Tariff Commission report. Overall sales amounted to 1,024,000 pounds with an estimated value of $792,000 and an average unit value of 77c. per pound.

Benzyl Acetate—Production of benzyl acetate in 1954 totaled 624,000 pounds according to a preliminary report by the United States Tariff Commission. Sales of benzyl acetate during that period aggregated 564,000 pounds with a total estimated value of $309,000 and a unit value of 55c.

Citral—Demand for citral continued at a steady pace. Supplies were adequate to cover current consumer requirements and with the raw material situation good at present, should continue ample.

Production of citral in 1954 has been reported as aggregating 51,000 pounds by the Tariff Commission. Overall sales were estimated at 45,000 pounds with an aggregate value of $155,000 and a unit value of $3.42 per pound.

Eugenol—The spot market was running at routine levels. Supplies were adequate

Imports Detained by FDA

Week Ended July 29

New York

Aniseed (4 lots), 108 bags: filthy.
Black pepper (10 lots), 980 bags: moldy berries.
Chillies, 332 bags: insects.
Cassia (48 lots), 6,327 bags: filthy.
Coriander seed (4 lots), 1,000 bags: filthy.
Fenugreek seed, 113 bags: filthy.
Gum karaya (48 lots), 1,647 bags: filthy.
Kola nuts, 75 bags: wormy.
Mace (3 lots), 34 cases: insects.
Paprika, 50 bags: filthy.
Rauwolfia serpertina root (3 lots), 189 bags: name of product and directions for use not on bags; moldy.
Ground red pepper, 180 bags: filthy.
Turmeric, 120 bags: moldy.

For Late Market Developments, See Page 4

and the raw material, cloveleaf oil, from which this aromatic is produced, in ample supply. Pricewise, there have been no recent changes, it was noted.

Production of eugenol in 1954 totaled 132,000 pounds according to a Tariff Commission preliminary report. Sales during this period aggregated 112,000 pounds with an estimated overall value of $301,000 and a unit value of $2.67.

Miscellaneous

Anise Seed—The spot market declined 1c. on Mexican anise seed last week which ranged from 32c. to 33c. per pound. Spanish quality was steady at 34c.-35c.

Cardamom Seed—The spot market was steady with no changes reported. Green, Ceylon seed was reported to be higher for shipment with origin asking as high as $2.35 per pound.

Celery Seed—French celery seed was reduced 1c. on spot last week while Indian quality declined ½c. The former was currently quoted at 33c. and the latter, 15c.

Cinnamon—The "0000" grade of Ceylon cinnamon was reported quoted at 80c. on material for shipment. Number 2 grade cinnamon was steady at 55c.

Clove—There were no changes in the spot market. Both Zanzibars and Madagascars were quoted at 45c.

Fennel Seed—There were no price changes on spot, however, shipment prices had reportedly risen to 12½c. on the Indian quality while the spot market continues to quote 12c.

Ginger—The spot market was quiet on the Jamaican grades with no price changes reported. However, the African grades were noted to have firmed somewhat with Nigerian split 1c. higher and Cochin ginger also up 1c. per pound. The former ' s quoted at 36c. and the latter, also at 36c. Jamaica No. 2 was quoted at 48c. with No. 3 grade root at 47c.

Mace—There were no changes, pricewise, in the spot market. Shipment quotations on the West Indian quality were about $1.55 while spot stocks were reported completely spent.

Nutmeg—East India grades continue high for shipment but spot levels are unchanged as the demand has been light. West Indies are firmly held at source and local stocks are not heavy. All grades of mace are tight and tend to advance on every order.

Pepper—Prices drifted lower during the better part of the week. The decline was modest and was largely forced by the pressure on the spot. This is something that could change very quickly if interest for ready pepper were to revive, it was felt.

Foreign markets declined as well with India and Singapore competing for the small number of shipment orders. Sarawak likewise added to the pressure because of the discounts available on this grade. Some offtake late in the week seemed to steady prices at origin.

Estimated imports of black pepper during the first six months of this year have been placed at 6,976 tons compared to the 6,730 tons imported during the corresponding period last year. July arrivals last year totaled 625 tons and so far this year imports during July approximate 405 tons. The total for the month will very probably run a 1,000 tons, made up largely of Lampong and Sarawak. This quantity should not prove depressing since the market is entering the season of heaviest

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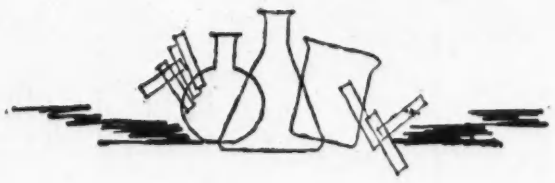

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Arrivals and release of white pepper were reported to have improved the supply situation on spot. Last week saw spot quotations drop off 1c. per pound, as a result of the improvement. The latest crop figures indicate that production this year has been smaller than in 1954 with a consequent carryover that is very light.

In red peppers, better qualities such as Hontakas and Santakas are finding a steady, small demand. Competitive priced lots are being taken from the market and thereby leaving only limited supplies for the early fall demand. The bulk of the stock of Turkish chillies have been distributed. Newcrop prices are above spot levels.

Pimento—The spot market was steady and quiet in view of consumer lassitude. Most trading was for jobbing needs at present. Jamaican pimento was quoted at 83c. per pound and Mexican material, 74c.

Vanilla Beans—The spot market was reported to be firming up once again following the long downward trend of recent months. Trading in Bourbon beans was quite heavy during July when consumers moved to rebuild depleted inventories at price levels which were almost one-half of those existing at the beginning of the year.

Currently Bourbon beans were quoted at $6.50 to $7 per pound while Tahitis were nominal at around $6. There was virtually no market reported in Mexican beans which continued to be priced at higher levels than Bourbon quality. Mexican whole beans were quoted at $7.50-$8 with cuts 25c. lower.

The rush by consumers to replenish their stocks was reflected in a strengthening of the vanilla market at origin.

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Oils, Fats and Waxes

Trading in oils and fats lacked snap last week, and was confined to actual needs. Crude cottonseed oil was firmer and sales were reported at higher prices for immediate delivery, while interest in new crop was still inactive. Soybean oil remained steady and quotably unchanged. Crude coconut oil continued unsettled, declining fractionally due to increased offerings. Copra also was easier.

Reduced buying interest for tallow and greases weakened this market and moderate sales took place for domestic needs, at the decline, while export inquiry continued inactive.

Consuming inquiry in drying oils, was fairly active, with sales reported at higher prices for oiticica and castor oils. Linseed oil was quiet, and steady, especially for prompt delivery. Consumers, however, confined activity to withdrawals against contracts, which continued in good volume for this time of the year. Tung oil declined sharply due to sales at lower prices by the government.

Crude menhaden oil was easier and sales were reported at a fractional decline for export, with domestic demand slow. Sperm oil was lifted 1 cent per pound. Domestic castor oil was firmer and quotations were raised for tankcars, while drums lots were quotably unchanged. Imported castor remained steady, with offers for shipment scarce.

Demand for oilmeals was limited and restricted to nearby delivery. Soybean and linseed meals were easier and off slightly, while cottonseed was more or less nominal.

Price Trends

Advanced

Cocoa butter, 1c. per lb.
Oil, cottonseed, crude, ⅛c. per lb.
Oiticica, ¼c. per lb.
Sperm, 1c. per lb.

Reduced

Copra, $6 per ton.
Greases, ⅛c. per lb.
Linseed meal, 50c. per lb.
Oil, coconut, crude, ¼c. per lb.
Menhaden, crude, ¼c. per lb.
Tung, 1c. per lb.
Soybean meal, 50c. per lb.
Tallow, ⅛c. per lb.
Wax, carnauba, crude, Ceara, 2c. per lb.

Comparative Price Indexes

(100 = 1949 average)

Last week	Prev. week	Last month	Aug. 6, 1954
105.27	105.61	103.64	111.83

(For Current Prices see Page 9)

Vegetable Oils

Castor—Market was strong for both domestic and imported grades. Domestic oil in tankcars was higher, while drums were unchanged. Trading was moderate. No. 1 Brazilian was sold at 13¾c. per pound, tankcars, prompt delivery.

Coconut—Crude was unsettled with trading reported at 10¾c. per pound, tankcars, f.o.b. Pacific coast, and 10⅞c. asked. Tankcars at New York were offered at 11⅞c., prompt delivery.

Corn—Trading in crude took place at 13c. per pound, tankcars, f.o.b. mills, August delivery and 12⅞c., September. Refined oil was held at 16½c. per pound, tankcars, New York, nearby delivery.

Cottonseed—Market for bleachable cottonseed oil futures was firmer early in the week on reports of dry weather in the soybean and other grains sectors, but reacted lower following a bearish private report forecasting the soybean crop at 395,562,000 bushels, compared with final 1954 production of 343,000,000 bushels and 10-year average of 238,000,000 bushels. Trading was mixed, chiefly speculative.

Crude oil was stronger for nearby delivery and trading was reported at 12⅞c. per pound, tankcars, f.o.b. Valley, first half August; 12¾c. in Texas, first half August and 12¼c., September. CCC sold 63 tankcars of crude for export at 11.64c. per pound, f.o.b. vessel, Avondale, La., and 11.61c. in store, Houston, Texas.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended August 5 follow:—

	Sales	Cents per pound High	Low	Close
September	42	14.75	14.32	14.64@14.67
October	48	14.34	13.96	14.25@14.30
December	53	14.23	13.90	14.17S
January	2	14.25	13.88	14.20@14.24
March	26	14.14	13.80	13.09S
May	18	14.08	13.67	13.98@14.02

Total sales, 189 contracts.

Linseed—Trading was slow, but the market remained steady at prevailing quotations due to poor demand and low cost of meal. Lower flaxseed had no influence on the oil market. Deliveries of oil against contracts were in good demand for this season of the year. Raw oil was held at 13.3c. per pound, tankcars and 13.5c., warehouse, Minneapolis for first half August; 13c., second half August and September; 12.6c. October and 12.4c. November-December.

Oiticica—Prices advanced fractionally. Firmness of replacements kept this market strong. Tankcars were sold at 14c. per pound, New York, prompt delivery, with ¼c. more asked in some quarters. Drums were maintained at 15¼c. to 15½c. per pound, as to quantity.

Soybean—Crude oil was irregular last week, closing unchanged and fairly steady. Market was firmer early, but reacted lower with bearish private crop report. Crude was sold at 11½c. per pound, tankcars, f.o.b. mills, Decatur; first half August; 11¼c., first half September; 11c. second half September and 10⅜c., October-December. Refined salad oil was quoted at 14½c. per pound, tankcars, New York, immediate delivery.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exhange in tankcars (60,000 pounds) for the week ended August 5 follow:—

	Sales	Cents per pound High	Low	Close
September	5	11.04	10.94	11.02S
October	4	10.50	10.41	10.50S
December	14	10.40	10.28	10.31@10.34
January	10	10.40	10.27	10.29@10.36
March	15	10.30	10.20	10.25S
May	3	10.24	10.19	10.19S

Total sales, 51 contracts.

Tung—Acceptance of lower bids by CCC for tung oil last week, weakened the market and prices dropped 1½c. to 2c. per pound. The government sold 35 tankcars, and rejected bids for 5 cars. Sales ranged from 25c. to 25¾c. per pound, in the North and 24c. to 24.55c. in the South. In the local market tankcars were lower ranging from 26c. to 26½c. New York, prompt delivery and domestic oil 1c. less f.o.b. mills.

Miscellaneous

Castor Beans—Market was reported inactive and nominal at $115 per ton, c. and f.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds Beans	Oil
Last week	933,450	1,532,060
Previous week	309,000	.....
Corresponding week, 1954	1,314,000	400,000
Total this year	56,435,915	52,208,000
Corresponding period, 1954	64,079,550	20,760,000

Cocoa Butter—Prices were stronger, advancing to 59c. to 65c. per pound, spot, depending upon quality.

Copra—Market was easy and slightly

Cottonseed Crush: June

Cottonseed received and crushed and production of cottonseed products during June and May, 1955, as compiled by Bureau of the Census, follows:—

Cottonseed

	June Tons	May Tons
Receipts at mills	18,525	*7,269
Crushed or used	197,030	284,731
Stocks at mills	243,315	*421,820

Crude Oil

	Pounds	
Produced	67,251,000	101,987,000
Stocks at mills	24,796,000	49,280,000

Refined Oil

	Pounds	
Produced	87,033,000	105,709,000
Factory and warehouse stocks	[1]433,456,000	[1]527,013,000

Cake and Meal

	Tons	
Produced	95,378	139,630
Stocks at Mills	237,998	266,945

Hulls

	Tons	
Produced	42,355	63,698
Stocks at mills	48,230	53,761

Linters

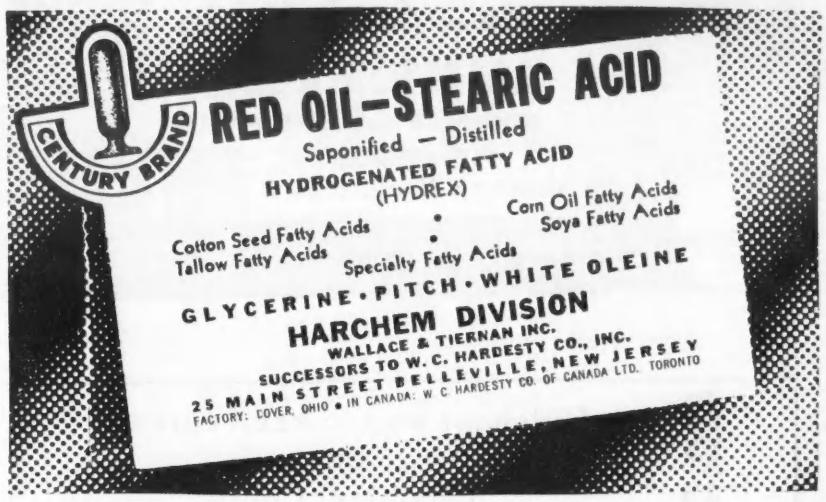
	Bales	
Produced	[2]56,724	[2]87,480
Stocks at mills	159,526	230,640

* Revised.

[1] Includes 269,000,000 pounds of refined cottonseed oil reported to the Census Bureau as owned by CCC. This figure, as well as the May 31 total of 325,000,000 pounds, includes quantities sold for export but not lifted. As of June 30 CCC reported it had removed about 65,000,000 pounds of refined cottonseed oil from inventory and placed in transit to other storage all of which it is estimated that about 5,000,000 pounds have not been reported to the Census Bureau.

[2] Average gross bale weight in pounds for June and May, production respectively:—Total 616.9 and 610.3; first cut, 610.2 and 598.4; second cut 618.2 and 616.0; and mill run 626.1 and 601.6.

For Late Market Developments, See Page 4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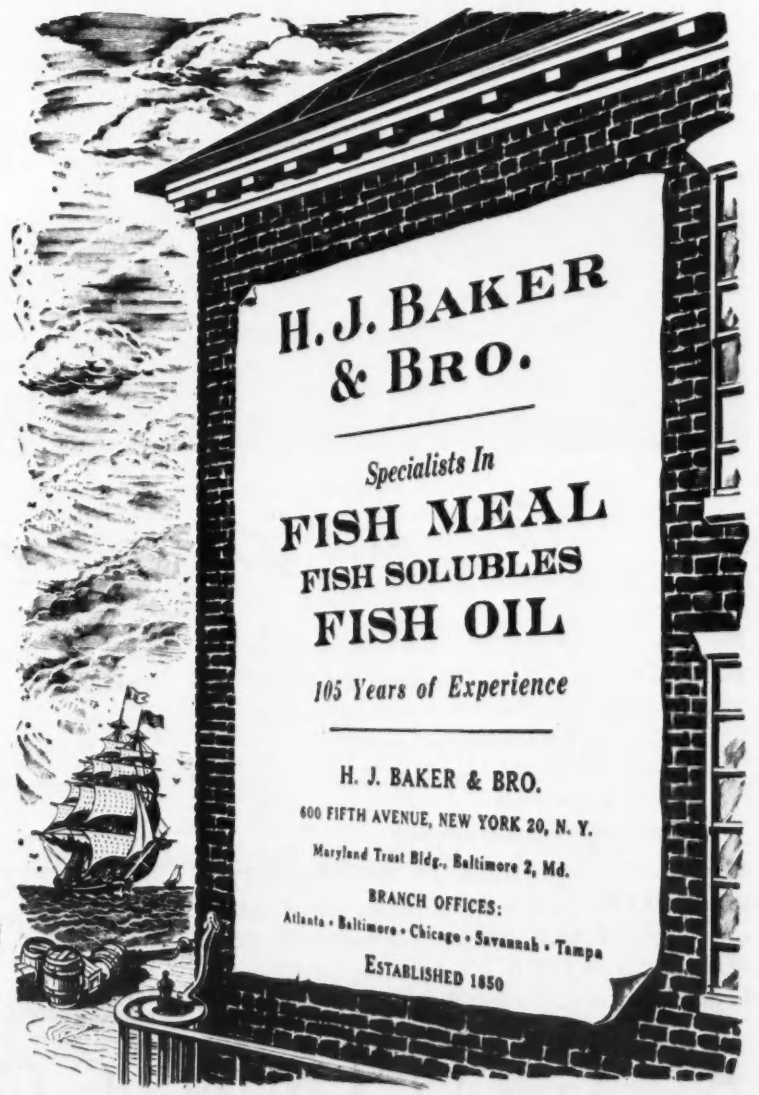
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Fats and Greases

Greases—Trading was limited and took place at slightly lower levels. Yellow grease was quoted at 7c. per pound, tankcars, delivered; choice white, all hog, 8½c.; not all hog, 8c.; house, 6⅝c. and brown, 5⅝c., same basis.

Lard—Business was slow and market was unsettled. Cash lard was quoted at 10½c. per pound, drums, Chicago.

Oleo Oil—Market was quiet. Extra was unchanged at 14¾s. to 15c. per pound, drums as to quality and oleo stearine, 10¾c. to 11c., barrels.

Tallow—This market was easy and slightly lower. Fair domestic business was reported at lower levels, while export demand continued inactive. Bleachable fancy was quoted at 7⅝c. per pound, tankcars, delivered; extra, 7⅜c.; special, 7⅛c.; No. 1, 6⅞c. and edible, 9¾c., same basis. Guaranteed fancy was lower at 8⅞c., drums, f.a.s.

Fish Oils

Refined Fish—Refined grades were in light demand. Light pressed was offered at 10c. per pound, tankcars, New York, prompt delivery. Crude menhaden was easier, with trading reported at 7¾c. per pound, f.a.s. Gulf. Market on the Atlantic coast was nominal at 7½c., tankcars, f.o.b. works. Fishing was reported normal, especially in the south Atlantic and Gulf coasts.

Cake and Meal

Cottonseed Meal—Buying interest for new crop meal was still light, with bids several dollars below asking prices. Meal, 40 percent was offered at $61 per ton sacked, Memphis; $59, Alabama and Georgia, August shipment. Sales of new crop meal were reported at $58.50 per ton, southeast mills, for September through December.

Linseed Meal—Demand limited to nearby needs. Prices easy.

Minneapolis.—Linseed meal market was quiet. Prices declined 50c. to $1 a ton with weakness partly attributed to toll processing. Shipping directions were fair. Extracted linseed meal, 36 percent protein, was quoted at $55.50 to $56 a ton, bulk, in carlots, f.o.b., Minneapolis. Expeller meal was priced $4 a ton higher. New crop meal for September-December shipment was quoted $1 less.

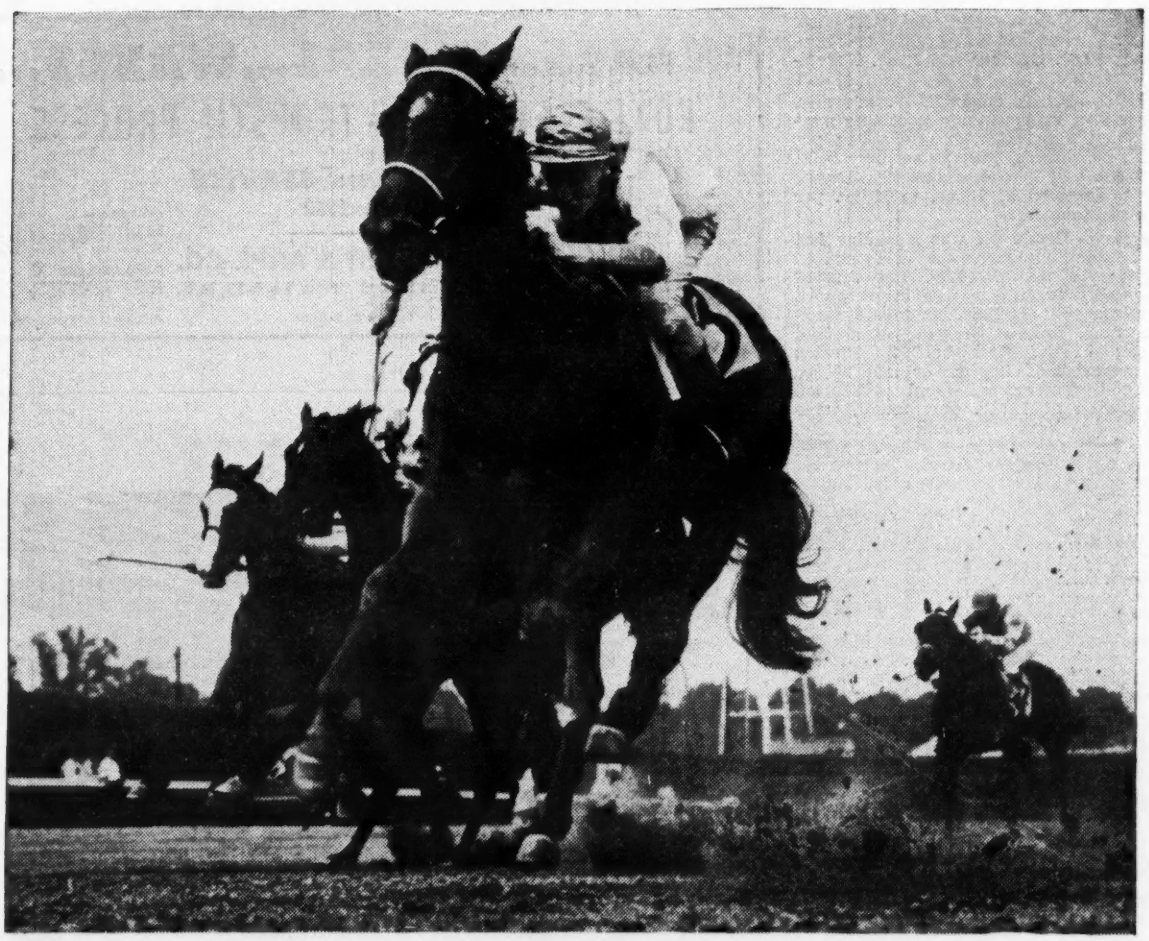
Shipments of linseed meal, in pounds, were as follows:—

	1954-55	1953-54
Past week	13,680,000	15,960,000
Since Sept. 1	615,540,000	624,730,000

Soybean Meal—Light sales were confined to nearby shipment. Meal, 44 percent unrestricted billing was quoted at $52.50 per ton, bulk, Decatur, August shipment; $51.50, September and $50 for new crop, October through September shipment. Export inquiry was reported fair, but actual trading was limited.

Waxes

Carnauba—While trading was light, the market was firm, reflecting the higher cost of replacements from Brazil. Offers of yellow were scarce and higher, with the result that spot stocks of No. 1, Ceara yellow were lifted to 97c. to 99c.



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1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #0, 18" hinged Hammer Mill.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll Crusher.
Buchanan 5"x12" Jaw Crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20. 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS
Porter 42" dia. Stainless Conical Blender
Lancaster 6' dia. Vert. Mixer 25 HP.
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000# horiz. spiral mixer.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
Orv. Simpson 20"x48" Rotex Sifter
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3,000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

MISC. AND SPECIALS
Kux 2½" dia. Tablet Machine.
Anderson & French Oil Expellers.
Tablet Machines Single & Rotary Types.
Kane 2 H.P. Gas Boilers, 200# pressure.
3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Shepherd Elevator 18' lift, 42"x54".
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.

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2—62 SQ. FT. MONEL HEAT EXCHANGERS.

3—SCHALLER 4'x13' 316 S.S. REACTORS WITH TUBULAR CALANDRIAS, 513 SQ. FT. EACH.

1—PFAUDLER 250 GAL. HASTELLOY "C" REACTOR.

2—I. R. JET REFRIGERATION UNITS 208 AND 136 TONS.

1—PATTERSON 7'6" CONICAL BLENDER, RUBBER LINED.

1—RIETZ 30' "THERMOSCREW" CONVEYOR DRYER, 304 S.S.

1—ILLCO DUPLEX ION EXCHANGE TWO 5'x9' 316 S/S TANKS, 182 CU. FT. OF DUALITE A-7 RESIN INTER-CONNECTING PIPING, CAPACITY APPROX. 150 GPM.

2—PFAUDLER 2300, 1200 GAL. GLASS LINED TANKS.

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10—Alberger Karbate Heat Exchangers, 370, 255, 188, 170, 159, 70 and 16.4 sq. ft.

1—316 S.S. Hopper, 7500 gal.

2—Karbate Centrifugal Pumps Series 3A, 5 HP XP motors.

3—Lawrence 316 S.S. Vertical Centrifugal Pumps 3" and 1½".

4—Link Belt 12" rubber belt Conveyors, totally enclosed 30' to 77' cc.

IN STOCK

DRYERS
2—Link Belt Roto-Louvre 6'4"x24', 3'10"x12', steel.
1—Link Belt Roto-Louvre 7'5"x20', stainless steel.
2—Hersey 4'x30', 3'x20' S.S. Hot Air Rotary.
2—Struthers-Wells 5'x15' nickel Rotary Vacuum.
2—Buflovak 32"x52" atmos. double drum 316 S/S.
1—Devine 2'x4' Vacuum Drum, 316 S/S.
1—Stokes 138H Vacuum Shelf with 10—44"x40" shelves.
1—Devine double door Vacuum Shelf with 17—59"x78" shelves.
3—Stokes Rotary Vac. 3'x15', 30"x8', 18"x42".
1—Devine Rotating Vacuum 5'x10'.
3—Rotary Dryers 5'x30', 5'x40', 4½'x50'.

MIXERS
8—Day Cincinnatus double arm 660, 250 and 100 gals.
3—Baker Perkins 100, 50 gal. double arm, jacketed.
7—Sprout Waldron S.S. jacketed, Powder, 67, 27 and 10 cu. ft.
1—Struthers-Wells 6'x9' S/S. Rotating, jacketed.

MILLS
1—Patterson NEW 6'x8' Berylite Lined Mill, 50 HP motor.
3—Abbe Patterson 6'x8' unlined Ball Mills.
1—Patterson 3½'x4' jacketed, steel Ball Mill.
5—Mikro Pulverizers #4TH, #3TH, #2TH, #2DH.
1—Hardinge 6'x22', Conical, steel lined.
3—National 10"x20", 6"x12" Two-Roll Mills with motors.

CENTRIFUGES
1—Sharples PN14 Super-D-Canter, 316 S/S.
1—DeLaval AC-VO continuous 304 S.S.
2—Sharples C-20, C-27, Super-D-Hydrators, 316 S/S.
3—Sharples P16 Monel and S/S. Pressurtite Super Centrifuges.
4—Tolhurst AT&M 40", 36", 32", Suspended steel, stainless.
1—Bird 40" Suspended, rubber covered, imperforate basket, M.D.
1—AT&M 36" center-slung, rubber covered, perforated basket.
1—Tolhurst 26" suspended, rubber covered, perforated basket, M.D.

REACTORS, CONDENSERS, TOWERS, TANKS
3—25,000 gal. rubber lined Storage Tanks 10'6"x40'9".
2—Pfaudler 200 and 100 gal. glass lined, jacketed, agitated.
1—Buflovak 800 gal., 347 S.S., jacketed, agitated.
5—Towers; 7'x25' 6" S/S, 6'6"x55' steel, 6'x58' chrome lined, 4'x30' S/S, 12"x14' S/S.
25—715, 477 sq. ft. Atmospheric S/S Heat Exchangers.
3—2400 sq. ft. Admiralty Tube Heat Exchangers.
3—55 to 350 sq. ft. S/S. Tubular Heat Exchangers.
4—188, 170 sq. ft. Karbate Heat Exchangers.

FILTERS
2—Oliver 8'x10' Monel Rotary Vacuum.
1—Swenson 4'x2' Nickel Rotary Vacuum.
2—Oliver steel 5'3"x6' Rotary Vacuum.
1—Niagara 110-20 Filter with 12 S.S. leaves.
2—#3 Sweetland S/S. Filters with 12—25" dia. leaves 75 sq. ft.
4—#5, #7, #10, #12 Sweetland Filters.
4—Shriver 36"x36", 30"x30", c.i. Filter Presses, P&F, washing.

MISCELLANEOUS
4—Orville Simpson Rotex Sifters 40"x120", 40"x84", 20"x81".
2—Stokes #DDS2 and #D3 Rotary Tablet Machines.
7—Nash vacuum pumps #H7, #H6, #L5, #L3, #4, #2.
7—Durco S.S. centrifugal pumps 1" to 3".

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1—Nash H-4 Hytor Compressor with 20 HP motor, Bronze.

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1—Fitz. Model F Comminuting Mach., St. St.

1—Gruendler 36x24 Hammermill.

1—Jay Bee Hammer Mill, 75 HP.

1—Coppus Steam Turbine, 75 HP.

1—Penna. Ring type Granulator, Trojan K3-24, 18" x 36" hopper opening, 40 HP motor.

1—Hardinge #72 Loop Air Classifier.

1—Link-Belt Skip Hoist, 4800# cap. 50 FPM, 43' lift, 15 HP.

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2—Richardson Convey-O-Weigh Scales.

1—Steel Bucket Elevator, 81' H, 16" x 16" x 8" buckets.

7—Bucket Elevators—20' to 42' H.

400' Screw Conveyor, 6" dia. & 9" dia.

1—24" W Pan Conveyor, 150' L.

2—12" W Pan Conveyors, 85' & 36' L.

2—18" W Trough Belt Conveyors, 85' & 16' L.

1—Drag Conveyor, 8" x 16" x 65'

1—Traylor Rotary Kiln, 10'6" D x 105' L x ¾" welded shell.

3—Rotary Dryers: 5' x 30'; 4'6" x 40'; 3' x 24'.

3—Rotary Chrome Nickel Alloy Furnace Tubes, 24" dia. x 8'6" L.

1—Allis Ch. Contin. Steel Ball Mill, 6' D x 16' L.

3—Pebble Mills, Contin., 4'6" D x 12' L.

1—Charlotte #50 Colloid Mills.

1—Humbolt Colloid Mill, Jacketed, 50 HP.

1—Bird 36 x 50 Solid Bowl Centrifuge.

1—Bird 24" Horiz. Cont. Centrifuge with 15 HP motor.

1—Fletcher 40" Perf. Basket Centrifugal susp., steel.

2—AT&M Weston 40" Basket Centrifugals, steel.

1—Sweetland #5 Filter, 20 lvs.

1—Permutit Water Softener, 4700 GPH.

1—Sperry 30" C.I. P&F Filter, 46 ch., hydr. closer, vis. cl. disch.

4—15,000 gal. Vertical Welded Steel Tanks with coils and agit.

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15—4300/4600 gal. Horiz. Welded Steel Tanks.

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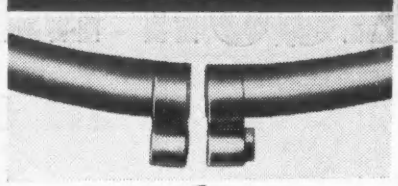

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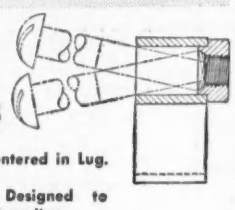

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Sweetland #5, Stainless.
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Rotary Vac. 5'x15' nickel clad.
Rotary Vac. 30"x8', Stokes 59AB.
Rotary 26"x8' oil fired with feeder.
Rotary 4'x27' oil fired, motor drive.
Rotary 5'x67' 6" lifters.
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Rotary Kiln 10'x200'x¾" oil & gas burners, comb. chamber, dust collecting system.
Roto-Louvre 705-20 SS heating coils comp.
Roto-Louvre 604-24 complete w/furnace.
Roto-Louvre 502-20 comp w/furnace.
Roto-Louvre 310-12 heating coils, comp.
SS Spray, 10'x36', gas fired.
Single drum, 5'x6' atm. scraper.

MILLS
Raymond #1 Automatic.
10'x48" Hardinge Ball Mill.
Raymond #40 Imp, Stainless.
5'x8' Kennedy Type M w/disc feeder.
6'x8' Abbe & Patterson.

CENTRIFUGES
Sharples C20, SS, Super-D-Hydrator.
Sharples C27, SS, Super-D-Hydrator.
Sharples PN14, SS, Super-D-Canter.

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170 gal. Ajax dbl. arm, power pump.
1050 gal. Paddle dbl. shaft heavy duty NEW.
3900 gal. hor. jktd. 75 PSI paddle agitator.
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67-27-10 cu. ft. SS Sprout Waldron Powder.
550 cu. ft. SS jktd. rotating oscillating.

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SS 347 lined, Scrubber, 5'x18'.
SS 347, 6'x29', 21 trays.
Steel, 4'x53', 23 trays, 160 PSI.
Steel, 2'x47', 20 trays, 375 PSI.
Steel, 3'x49', 28 Trays, 425 PSI.
Everdur, 5'x23', 24 trays.
Karbate #22, packed, 19"x12' NEW.

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EXTRUDER—Stainless Steel Screw 2½".
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9—Stainless Steel Heat Exchangers 15 to 100 sq. ft.

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1—Nickel 10,000 gallon Storage Tank.

1—Stainless Steel 4000 gallons Storage Tank.

2—J. H. Day Gearless Pony Mixers, 50 gallons each.

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3—J. H. Day Brighton Mixers, 175 gallons.

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1—Vulcan Rotary Kiln, 7 ft. x 120 ft.

2—Buflovak 24" x 36" Chromeplated Double Drum Dryers, complete.

1—Buflovak Double Drum Dryer, 32" x 90 in., complete.

1—Pfaudler Glass-lined Rotary Dryer, 4 ft. x 45 ft.

1—Stainless Steel Jacketed 3,000 gallon Kettle with coil, 50# Jacket, full vacuum ASME (NEW).

1—Stokes Rotary Vacuum Dryer, 30 in. x 8 ft.

1—J. P. Devine Rotary Vacuum Dryer, 5 ft. x 25 ft.

1—Devine Double Door Vacuum Shelf Dryer, 17 shelves.

1—Feinc 3 ft. x 3 ft. Type 304 Stainless Steel Rotary Vacuum Filter, string discharge (NEW).

3—Buflovak Single Door Vacuum Shelf Dryers, 20 shelves.

3—Stainless Steel Jacketed Kettles, 380 gallons each.

6—Stainless Steel Jacketed Kettles, 650 gallons each.

1—Lee Stainless Steel Jacketed Kettle, 80 gallons.

1—Oliver Rubber-lined Vacuum Filter, 3 ft. x 6 ft.

1—Feinc Type 316 Rotary Vacuum Filter, Size 6 ft. 6 in. x 6 ft. (New).

1—Feinc Type 316 Rotary Vacuum Filter, 3 ft. x 3 ft. (New).

1—Shriver 42" x 42" Cast Iron Plate and Frame Filter Press, 60 chambers.

1—Sperry 36" x 36" Plate and Frame, Cast Iron, Frame Press, 40 chambers.

1—AT&M Type 316 Stainless Steel Suspended Type Centrifuge 18".

1—Bird Suspended Type Centrifuge, 48" Basket with Plow and motor, basket perforated.

1—Bird 48" Solid Bowl Centrifuge, Stainless Steel.

3—A. O. Smith Stainless Steel Heat Exchangers, 1500 sq. ft. each.

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MIXERS—DRY POWDER, 400, 600, 1,000, 1,500, 2,000 & 3,000 lb.
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TABLET PRESS—Stokes, RB1, complete.
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MIXERS—Robinson 15"x10' (paddle), Lancaster EAG3 (5½ cu. ft.) EBG4 (9 cu. ft.) Clearfield 920 (15 cu. ft.).
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2—½ H.P. Port. Agitators, A.C., b.g.
2—Stainless Steel Hersey Rotary Dryers, 5'x26' and 6'x23'.
2—8'x125' Rotary Kilns.
3—Buflovac 42x120, 32x120 Atmos dbl. Drum Dryers, complete; 1—American 24x36.
2—54"x70" and 1—40"x60" Bird Continuous Centrifugals, S/S Solid bowls.
1—Day #30 Imperial jack. Mixer, 75 gal.
1—Buflovac 48"x40" Drum Flaker, chrome plated, s s ends.
9—Sperry 18"x18" Filter Presses, 11 ch.
1—Link-Belt Co. ROTARY DRYER, Roto-Louvre, #502-16 Type C, 5'2" dia. 16' long with #304 S S contact parts.
3—Unused #12 Sweetland FILTERS, 48 bronze monel covered bottom drainage leaves 3" c c. Latest type; 1—#2, 23 copper leaves 1½" cc.
5—Horiz. Dry Powder Ribbon Mixers, 4000#, 1500#, 500#.

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1—Stokes model T-4 tablet press.
10—Baker-Perkins & Day 2 arm mixers—500, 100, 50 gallons.
2—48" Sperry 50 chamber wood filter presses—hyraulic closing.
1—Sharples Super-D-Hydrator Model C 20 with x proof motor—SS constr.
4—Patterson 4'x4' chrome manganese jacketed ball mills—225 gals.
6—Hersey, Ruggles-Coles and Louisville dryers 3'x24', 4'6"x30', 4'x40' and 6'x40'. Monel, SS lined and steel.
1—J. H. Day 40 gal Pony mixer.
1—American Tool 40" bronze bottom discharge, suspended centrifuge, MD.
6—Rotex 20"x48" to 40"x84" —1 and 2 deck.
11 dry powder mixers—100# to 7500#—spiral ribbon.
3—Charlotte, Premier and Morehouse mills—2 to 20 HP.
3—Devine 3, 10 and 17 shelf vacuum shelf dryers.
2—40" SS centrifuges—MD.
2—Fitzpatrick model D communuters, complete with 7½ HP motors.
3—Pfaudler model ELL and model R reactors — one glass lined.

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Rayonier V.P. to New Post

W. E. Breitenbach has been named executive vice-president of Alaska Pine & Cellulose, Ltd., it was announced recently by Clyde B. Morgan, chairman of Alaska Pine. Mr. Morgan is also President of Rayonier Incorporated, New York. Mr. Breitenbach, now vice-president in charge of manufacturing of Rayonier, will move to Vancouver, B. C., Canada, and assume his new duties on September 1.

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Polyacrylate Development Told by Union Bay State

Union Bay State Chemical Company, Cambridge, Mass., has produced a new material, known as "Hycryl A-1000," which is a water solution of a modified polyacrylate. Its particle suspending properties, film flexibility and water resistance upon drying are said to set it apart from classification with other dispersants and binding materials such as casein, the substituted celluloses or ordinary polycrylate solutions.

The new agent is reported to be valuable in the preparation of aqueous dispersions of pigments or other finely divided substances where maximum solids concentration at minimum stable viscosity is required and where water resistance of deposited particles, minimum settling, and simplicity of formulation are desirable.

Spencer Kellogg Position Goes to Richard Bieneman

Richard A. Bieneman has been appointed research group leader by Spencer Kellogg & Sons, Inc., Buffalo, N. Y. As head of the paint laboratory in the company's new research center, he will directly supervise development work on new products for the paint industry, according to Dr. Malcolm M. Renfrew, director of research and development. In addition, Mr. Bieneman will be concerned with customers' problems in the paint and varnish trade.

Mr. Bieneman goes to Buffalo from Detroit, Mich., where he was chief chemist for the Seal-Rite Company. He also was formerly a production superintendent and paint formulator for Rinshed-Mason Company.

Gross Names Lechner Distributor

Carl A. Lechner Company, Chicago, has been named distributor in the Chicago territory for A. Gross & Co., New York. Lechner will handle the complete line of fatty acids and glycerides manufactured by Gross.

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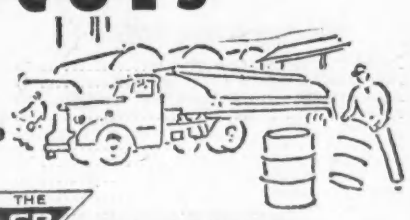

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